

DUO 2" ROUND

ACCESSIBLE CEILINGS

DOWNLIGHT / ADJUSTABLE ACCENT / WALL WASH

Spectrum's 2" aperture recessed LED downlight fixture is ideal for application where discrete lighting is desired. Suitable for accessible ceilings only. Multiple beam distributions provide flexibility to the lighting designer.



DOWNLIGHT LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2DL835KM302DMW	772	6.44	120.03
2DL1035KM302DMW	1240	10.99	112.83
2DL1535KM302DMW	1624	14.77	109.95
2DL2035KM302DMW	2293	22.38	102.46

ADJUSTABLE LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2AL835KM302AMW	665	6.44	103.26
2AL1035KM302AMW	1023	10.99	93.08
2AL1535KM302AMW	1302	14.72	88.45
2AL2035KM302AMW	1952	22.41	87.1

WALL WASH LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2DL835KM302LW6MW	537	6.45	83.26
2DL1035KM302LW6MW	838	10.98	76.32
2DL1535KM302LW6MW	1085	14.76	73.51
2DL2035KM302LW6MW	1548	22.91	67.57

PRODUCT SELECTOR GUIDE

FRAME-IN KIT	INPUT VOLTAGE	OPTIONS	DLA ASSEMBLY	LUMENS	CCT	OPTIC	DIMMING	TRIM	TRIM OPTIONS	TRIM FINISH	FLANGE FINISH
2LFK	E1		2DL	10	3K	M30	DX	2D	L9	MB	MF

FIXTURE HOUSING SPECIFICATION

FRAME-IN KIT	INPUT VOLTAGE	OPTIONS	DLA ASSEMBLY	LUMENS	CCT	OPTIC ¹	DIMMING
2LFK	E1 120 Volt E2 277 Volt	EM Emergency Option	DOWNLIGHT	80 CRI	27K 2700K 3K 3000K 35K 3500K 4K 4000K	DOWNLIGHT	0-10V DIMMING OPTIONS
			ADJUSTABLE ACCENT	2AL		20° 25° 32° 39° Wide Distribution	DX 1% 0-10V, 120V/277V DA Xitanium, 1% Linear (DO10_ / 1%, 0-10V) DD EidoLED, 1% Logarithmic (EL10_ / 1% EidoLED)
2DL			WALL WASH	90 CRI		ADJUSTABLE	LUTRON
			8C9 634 Lm 10C9 1018 Lm 15C9 1333 Lm 20C9 1883 Lm Nominal Delivered lumens from Downlight at 35K 80/90 CRI M30	22° 29° 41° 54° Wide Distribution		DG Lutron Eco, 1% Linear (DL3E_ / 1% Lutron EcoSystem Fade)	
						W WALL WASH	FORWARD/REVERSE PHASE
						W Wide Distribution	DM 120V 2-wire, 1% Linear (DS2W1 / ELV/MLV, 120V)

¹ Beam Distribution based on open trim
² Wide Distribution optic is required when using the HC - Honey Comb Louver

TRIM / MODULE SPECIFICATION

TRIM	TRIM OPTIONS	TRIM FINISH	FLANGE FINISH / OPTIONS
DOWNLIGHT	DOWNLIGHT ONLY	MW Matte White MB Matte Black PT Platinum Silver SG Soft Glow CC Custom Color	MF ³ Match Flange WF White Flange CF Custom Color Flange NF Flangeless Kit
2D Open Downlight Trim	L5 Frosted Lens L7 Solite Micro-Prismatic Lens L9 Clear Lens HC ² Honey Comb Louver		
ADJUSTABLE ACCENT			
2A Open Adjustable Trim			
WALL WASH			
2LW6 Lensed Wall Wash Trim			

³ Select MF when choosing MW Trim finish and wanting matching flange



FINISH**MW**
Matte White**MB**
Matte Black**PT**
Platinum Silver**PRODUCT FEATURES****FRAME-IN KIT:**

Heavy-gauge galvanized steel frame-in with cast-aluminum ceiling clamp collar, is available to ship and preinstall prior to insertion of the downlight (DLA) assembly. Accommodates ceiling thickness up to 1.5 inches. For use in accessible ceilings only. Locking clamp collar firmly attaches frame-in to ceiling material and engages DLA for a firm fit. All DLAs (downlight, adjustable, wall wash) are interchangeable with same frame-in kit. Vertically adjustable mounting brackets accept expandable hanger bars which are included.

DOWNLIGHT ASSEMBLY (DLA):

LED module provides reliable operation and consistent color between fixtures. CRI = 80. Available in 90 CRI. DLA is accessible from below. Accessible ceiling required to access driver which is mounted to junction box cover plate. Quick connectors between DLA and driver.

JUNCTION BOX:

Heavy-gauge galvanized junction box pre-wired with grounding pigtail. Easy access covers.

DIMMING:

Standard product is compatible with 0-10 volt dimming controls (1%) or 120 volt two-wire, forward/reverse phase (1%).

REFLECTOR:

Downlight: Dual-optic system includes upper reflector which determines the beam distribution and lower trim to finish the ceiling. Standard finish is matte white with matching flange. Optional finishes available. Round, square, downlight, and wall wash are interchangeable with same housing. Flangeless option (NF) installs after frame-ins are installed and can be added at a later date if desired.

Adjustable Accent: Dual-optic system includes upper reflector which determines the beam distribution and lower trim to finish the ceiling. Standard finish is matte white with matching flange. Optional finishes available. Round and square adjustable trims are interchangeable with same housing. Flangeless option (NF) installs after frame-ins are installed and can be added at a later date if desired.

Wall Wash: Angled laminated film lens illuminates vertical wall surfaces. Standard finish is matte white with matching flange. Optional finishes available. Round, square, downlight, and wall wash are interchangeable with same housing. Flangeless option (NF) installs after frame-ins are installed and can be added at a later date if desired.

ELECTRICAL:

120 or 277 VAC, 50-60 Hz.

HEAT MANAGEMENT:

Engineered heat sink provides passive cooling for optimum heat management of the LED engine.

- Expected lamp life to be 50,000 hours with 70% lumen maintenance when ambient temperatures do not exceed 25C. Lower ambient temperatures yield longer lamp life.

DUO 2" ROUND

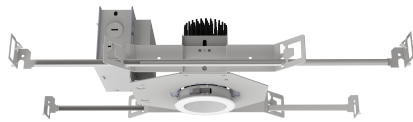
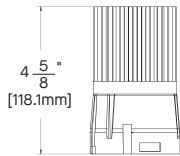
ACCESSIBLE CEILINGS



Spectrum Lighting

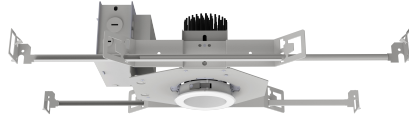
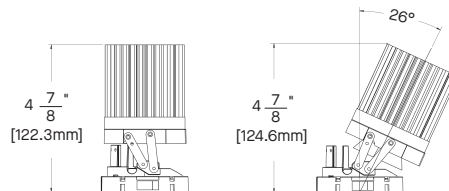
FIXTURE DIMENSIONS

2DL - Downlight



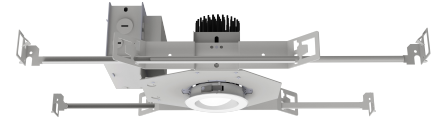
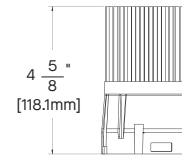
DOWNLIGHT TRIM SHOWN WITH 2LFK - NEW CONSTRUCTION STYLE

2AL - Adjustable



ADJUSTABLE TRIM SHOWN WITH 2LFK - NEW CONSTRUCTION STYLE

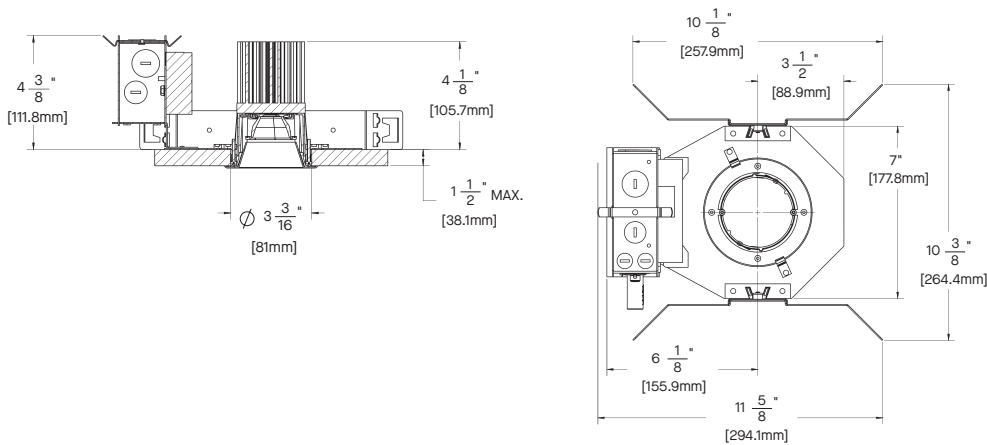
2DL - Wall Wash



WALL WASH TRIM SHOWN WITH 2LFK - NEW CONSTRUCTION STYLE

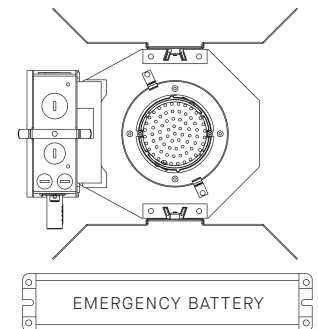
HOUSING DIMENSIONS

2LFK - New Construction Style



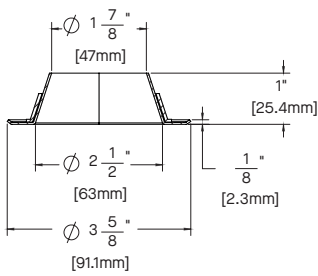
EMERGENCY BATTERY

EM - Emergency Options

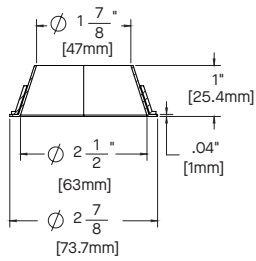


TRIM / MODULE DATA

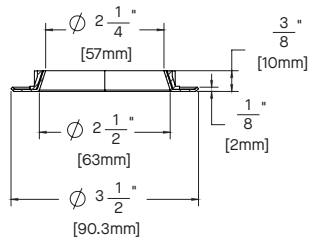
2D - Open Downlight Trim



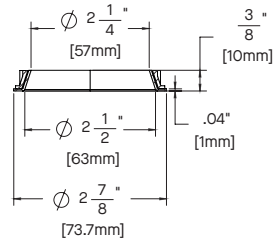
2D NF - Open Downlight Trim with Flangeless Kit



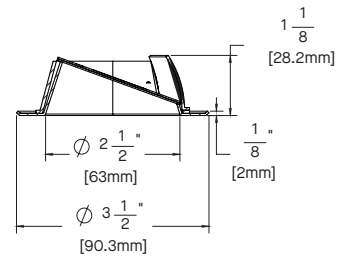
2A - Open Adjustable Trim



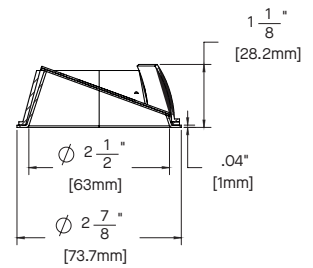
2A NF - Open Adjustable Trim with Flangeless Kit



2LW6 - Lensed Wall Wash Trim



2LW6 NF - Lensed Wall Wash Trim with Flangeless Kit



DUO 2" ROUND

ACCESSIBLE CEILINGS



Spectrum Lighting

2DL2035KS202DMW - Downlight

CANDLEPOWER CURVE TEST SP-R918	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT							
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6			
	0.00°	0° - 10°	733	31%	5.5'	342 fc	1.9'	165 fc	9'	2'	537	5.42	436	4.80
	5.00°	0° - 20°	1512	65%	6.5'	245 fc	2.3'	118 fc	12'	2'	565	5.71	522	5.75
	10.00°	0° - 30°	2033	87%	7.5'	184 fc	2.6'	89 fc	16'	4'	124	1.26	146	1.60
	15.00°	0° - 40°	2179	93%	8.5'	143 fc	3.0'	69 fc	Delivered Illuminance Rating: (DIR)		99 FC per W/Sq. Ft.		91 FC per W/Sq. Ft.	
	20.00°	0° - 60°	2271	97%	10.0'	104 fc	3.5'	50 fc	Recessed Mounting Square rooms used for multiple units: - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 - RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor					
	30.00°	0° - 80°	2335	100%	12.0'	72 fc	4.2'	35 fc						
	40.00°	0° - 90°	2344	100%	14.0'	53 fc	4.9'	25 fc						
	50.00°	Total	2344	100%	16.0'	40 fc	5.7'	19 fc						
	60.00°													
	70.00°													
	80.00°													
	90.00°													

Delivered Lumens: **2344**
Luminaire Watts: **22.36**
LER: **104.83**

CP at 0deg (Nadir): **10353**
CRI: **80+**

Beam Angle: **20.03**
Spacing Ratio: **0.3**

Lumen Multiplier: **8L x 0.337, 10L x 0.541, 15L x 0.708**
27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924, 30HK x 0.963, 35HK x 1.0, 40HK 1.021

2DL2035KM302DMW - Downlight

CANDLEPOWER CURVE TEST SP-R919	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT							
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6			
	0.00°	0° - 10°	546	24%	5.5'	238 fc	2.5'	112 fc	9'	2'	515	5.42	414	4.81
	5.00°	0° - 20°	1346	59%	6.5'	171 fc	2.9'	80 fc	12'	2'	456	4.80	380	4.41
	10.00°	0° - 30°	1931	84%	7.5'	128 fc	3.4'	60 fc	16'	4'	119	1.26	96	1.11
	15.00°	0° - 40°	2110	92%	8.5'	100 fc	3.8'	47 fc	Delivered Illuminance Rating: (DIR)		95 FC per W/Sq. Ft.		86 FC per W/Sq. Ft.	
	20.00°	0° - 60°	2216	97%	10.0'	72 fc	4.5'	34 fc	Recessed Mounting Square rooms used for multiple units: - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 - RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor					
	30.00°	0° - 80°	2284	100%	12.0'	50 fc	5.4'	24 fc						
	40.00°	0° - 90°	2293	100%	14.0'	37 fc	6.3'	17 fc						
	50.00°	Total	2293	100%	16.0'	28 fc	7.2'	13 fc						
	60.00°													
	70.00°													
	80.00°													
	90.00°													

Delivered Lumens: **2293**
Luminaire Watts: **22.38**
LER: **102.46**

CP at 0deg (Nadir): **7213**
CRI: **80+**

Beam Angle: **25.3**
Spacing Ratio: **0.39**

Lumen Multiplier: **27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924, 30HK x 0.963, 35HK x 1.0, 40HK 1.021**

2DL2035KW402DMW - Downlight

CANDLEPOWER CURVE TEST SP-R920	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT							
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5			
	0.00°	0° - 10°	387	17%	5.5'	166 fc	3.2'	75 fc	9'	2'	579	5.78	423	4.77
	5027	0° - 20°	1133	48%	6.5'	119 fc	3.7'	54 fc	12'	4'	143	1.43	138	1.55
	15.00°	0° - 30°	1826	78%	7.5'	89 fc	4.3'	40 fc	16'	6'	54	0.54	44	0.49
	2521	0° - 40°	2110	90%	8.5'	70 fc	4.9'	31 fc	Delivered Illuminance Rating: (DIR)		100 FC per W/Sq. Ft.		89 FC per W/Sq. Ft.	
	936	0° - 60°	2261	97%	10.0'	50 fc	5.7'	23 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 * Average Initial Footcandles at 2.5' Above Floor					
	49	0° - 80°	2331	100%	12.0'	35 fc	6.9'	16 fc						
	49	0° - 90°	2340	100%	14.0'	26 fc	8.0'	12 fc						
	4	Total	2340	100%	16.0'	20 fc	9.2'	9 fc						

Delivered Lumens: **2340**
Luminaire Watts: **22.37**
LER: **104.60**

CP at 0deg (Nadir): **5027**
CRI: **80+**

Beam Angle: **32.02**
Spacing Ratio: **0.48**

Lumen Multiplier: **8L x 0.337, 10L x 0.541, 15L x 0.708**
27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924, 30HK x 0.963, 35HK x 1.0, 40HK 1.021

DUO 2" ROUND

ACCESSIBLE CEILINGS



Spectrum Lighting

2DL2035KXW552DMW - Downlight

CANDLEPOWER CURVE TEST SP-R921	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																	
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5																																													
	0.00°	0° - 10°	300	13%	<table border="1"> <tr> <td>5.5'</td> <td>130 fc</td> <td>3.9'</td> <td>55 fc</td> </tr> <tr> <td>6.5'</td> <td>93 fc</td> <td>4.6'</td> <td>39 fc</td> </tr> <tr> <td>7.5'</td> <td>70 fc</td> <td>5.3'</td> <td>29 fc</td> </tr> <tr> <td>8.5'</td> <td>54 fc</td> <td>6.0'</td> <td>23 fc</td> </tr> <tr> <td>10.0'</td> <td>39 fc</td> <td>7.1'</td> <td>17 fc</td> </tr> <tr> <td>12.0'</td> <td>27 fc</td> <td>8.5'</td> <td>11 fc</td> </tr> <tr> <td>14.0'</td> <td>20 fc</td> <td>9.9'</td> <td>8 fc</td> </tr> <tr> <td>16.0'</td> <td>15 fc</td> <td>11.3'</td> <td>6 fc</td> </tr> </table>	5.5'	130 fc	3.9'	55 fc	6.5'	93 fc	4.6'	39 fc	7.5'	70 fc	5.3'	29 fc	8.5'	54 fc	6.0'	23 fc	10.0'	39 fc	7.1'	17 fc	12.0'	27 fc	8.5'	11 fc	14.0'	20 fc	9.9'	8 fc	16.0'	15 fc	11.3'	6 fc	<table border="1"> <tr> <td>9'</td> <td>2'</td> <td>457</td> <td>4.77</td> <td>401</td> <td>4.77</td> </tr> <tr> <td>12'</td> <td>4'</td> <td>137</td> <td>1.43</td> <td>130</td> <td>1.55</td> </tr> <tr> <td>16'</td> <td>6'</td> <td>52</td> <td>0.54</td> <td>41</td> <td>0.49</td> </tr> </table>	9'	2'	457	4.77	401	4.77	12'	4'	137	1.43	130	1.55	16'	6'	52	0.54	41	0.49
	5.5'	130 fc	3.9'	55 fc																																																				
	6.5'	93 fc	4.6'	39 fc																																																				
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	8.5'	54 fc	6.0'	23 fc																																																				
	10.0'	39 fc	7.1'	17 fc																																																				
	12.0'	27 fc	8.5'	11 fc																																																				
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12'	4'	137	1.43	130	1.55																																																			
16'	6'	52	0.54	41	0.49																																																			
0.00°	3927	0° - 20°	932	41%	<p>Delivered Illuminance Rating: (DIR)</p> <p>96 FC per W/Sq. Ft. 84 FC per W/Sq. Ft.</p>	<p>Recessed Mounting</p> <p>Square rooms used for multiple units:</p> <ul style="list-style-type: none"> - RCR 3: Length & Width = Ceiling Ht. - 2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 2.5' x 2.00 <p>* Average Initial Footcandles at 2.5' Above Floor</p>																																																		
15.00°	2236	0° - 30°	1678	75%		<p>96 FC per W/Sq. Ft. 84 FC per W/Sq. Ft.</p>																																																		
30.00°	959	0° - 40°	2022	90%																																																				
60.00°	42	0° - 60°	2170	97%																																																				
90.00°	3	0° - 80°	2239	100%																																																				
		0° - 90°	2248	100%																																																				
		Total	2248	100%																																																				

Delivered Lumens: 2248
Luminaire Watts: 22.37
LER: 100.49

CP at 0deg (Nadir): 3927
CRI: 80+

Beam Angle: 38.91
Spacing Ratio: 0.55

Lumen Multiplier: 8L x 0.337, 10L x 0.541, 15L x 0.708
27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924,
30HK x 0.963, 35HK x 1.0, 40HK 1.021

2AL2035KS202AMW-MAX - Adjustable

CANDLEPOWER CURVE TEST SP-R1758	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle				INITIAL FC ON HORIZONTAL PLANE 30° aiming angle																																																																									
			A	B	C	W	L1	L2	A	B	C	W	L1	L2																																																																		
	CP at 0°	0° - 10°	98	5%			<table border="1"> <tr> <td>2'</td> <td>3.5'</td> <td>34 fc</td> <td>38 fc</td> <td>15 fc</td> <td>5 fc</td> <td>1.5'</td> <td>3.5'</td> <td>1.2'</td> </tr> <tr> <td>3'</td> <td>5.2'</td> <td>15 fc</td> <td>17 fc</td> <td>7 fc</td> <td>2 fc</td> <td>2.3'</td> <td>5.2'</td> <td>1.7'</td> </tr> <tr> <td>4'</td> <td>6.9'</td> <td>8 fc</td> <td>10 fc</td> <td>4 fc</td> <td>1 fc</td> <td>3.1'</td> <td>6.9'</td> <td>2.3'</td> </tr> <tr> <td>6'</td> <td>10.4'</td> <td>4 fc</td> <td>4 fc</td> <td>2 fc</td> <td>1 fc</td> <td>4.6'</td> <td>10.4'</td> <td>3.5'</td> </tr> </table>	2'	3.5'	34 fc	38 fc	15 fc	5 fc	1.5'	3.5'	1.2'	3'	5.2'	15 fc	17 fc	7 fc	2 fc	2.3'	5.2'	1.7'	4'	6.9'	8 fc	10 fc	4 fc	1 fc	3.1'	6.9'	2.3'	6'	10.4'	4 fc	4 fc	2 fc	1 fc	4.6'	10.4'	3.5'	<table border="1"> <tr> <td>6'</td> <td>3.5'</td> <td>20 fc</td> <td>13 fc</td> <td>9 fc</td> <td>7 fc</td> <td>2.7'</td> <td>3.1'</td> <td>1.4'</td> </tr> <tr> <td>8'</td> <td>4.6'</td> <td>11 fc</td> <td>7 fc</td> <td>5 fc</td> <td>4 fc</td> <td>3.6'</td> <td>4.2'</td> <td>1.8'</td> </tr> <tr> <td>10'</td> <td>5.8'</td> <td>7 fc</td> <td>5 fc</td> <td>3 fc</td> <td>2 fc</td> <td>4.4'</td> <td>5.2'</td> <td>2.3'</td> </tr> <tr> <td>12'</td> <td>6.9'</td> <td>5 fc</td> <td>3 fc</td> <td>2 fc</td> <td>2 fc</td> <td>5.3'</td> <td>6.2'</td> <td>2.8'</td> </tr> </table>	6'	3.5'	20 fc	13 fc	9 fc	7 fc	2.7'	3.1'	1.4'	8'	4.6'	11 fc	7 fc	5 fc	4 fc	3.6'	4.2'	1.8'	10'	5.8'	7 fc	5 fc	3 fc	2 fc	4.4'	5.2'	2.3'	12'	6.9'	5 fc	3 fc	2 fc	2 fc	5.3'	6.2'	2.8'
	2'	3.5'	34 fc	38 fc				15 fc	5 fc	1.5'	3.5'	1.2'																																																																				
	3'	5.2'	15 fc	17 fc				7 fc	2 fc	2.3'	5.2'	1.7'																																																																				
	4'	6.9'	8 fc	10 fc				4 fc	1 fc	3.1'	6.9'	2.3'																																																																				
	6'	10.4'	4 fc	4 fc				2 fc	1 fc	4.6'	10.4'	3.5'																																																																				
	6'	3.5'	20 fc	13 fc				9 fc	7 fc	2.7'	3.1'	1.4'																																																																				
	8'	4.6'	11 fc	7 fc				5 fc	4 fc	3.6'	4.2'	1.8'																																																																				
	10'	5.8'	7 fc	5 fc				3 fc	2 fc	4.4'	5.2'	2.3'																																																																				
	12'	6.9'	5 fc	3 fc				2 fc	2 fc	5.3'	6.2'	2.8'																																																																				
	0°	1086	0° - 20°	458				21%	Dimensions W, L1 and L2 based on beam angle																																																																							
5°	1337	0° - 30°	1224	56%	Dimensions W, L1 and L2 based on beam angle																																																																											
15°	3737	0° - 40°	1863	86%																																																																												
25°	8729	0° - 60°	2134	98%																																																																												
35°	6234	0° - 80°	2166	100%																																																																												
45°	1723	0° - 90°	2175	100%																																																																												
55°	64																																																																															
65°	18																																																																															
75°	9																																																																															
85°	8																																																																															
90°	6																																																																															

Delivered Lumens: 2175
Luminaire Watts: 22.47
Efficacy: 96.80

CP at 0° (Nadir): 1086
CRI: 80+

Beam Angle: 22°

Lumen Multiplier: 8L x 0.274, 10L x 0.454, 15L x 0.548
27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924,
30HK x 0.963, 35HK x 1.0, 40HK 1.021

2AL2035KM302AMW-MAX - Adjustable

CANDLEPOWER CURVE TEST SP-R1760	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle				INITIAL FC ON HORIZONTAL PLANE 30° aiming angle																																																																									
			A	B	C	W	L1	L2	A	B	C	W	L1	L2																																																																		
	CP at 0°	0° - 10°	103	5%			<table border="1"> <tr> <td>2'</td> <td>3.5'</td> <td>37 fc</td> <td>51 fc</td> <td>14 fc</td> <td>3 fc</td> <td>2.1'</td> <td>5.3'</td> <td>1.4'</td> </tr> <tr> <td>3'</td> <td>5.2'</td> <td>16 fc</td> <td>23 fc</td> <td>6 fc</td> <td>1 fc</td> <td>3.2'</td> <td>8.0'</td> <td>2.2'</td> </tr> <tr> <td>4'</td> <td>6.9'</td> <td>9 fc</td> <td>13 fc</td> <td>4 fc</td> <td>1 fc</td> <td>4.2'</td> <td>10.6'</td> <td>2.9'</td> </tr> <tr> <td>6'</td> <td>10.4'</td> <td>4 fc</td> <td>6 fc</td> <td>2 fc</td> <td>0 fc</td> <td>6.3'</td> <td>15.9'</td> <td>4.3'</td> </tr> </table>	2'	3.5'	37 fc	51 fc	14 fc	3 fc	2.1'	5.3'	1.4'	3'	5.2'	16 fc	23 fc	6 fc	1 fc	3.2'	8.0'	2.2'	4'	6.9'	9 fc	13 fc	4 fc	1 fc	4.2'	10.6'	2.9'	6'	10.4'	4 fc	6 fc	2 fc	0 fc	6.3'	15.9'	4.3'	<table border="1"> <tr> <td>6'</td> <td>3.5'</td> <td>21 fc</td> <td>15 fc</td> <td>10 fc</td> <td>6 fc</td> <td>3.6'</td> <td>4.3'</td> <td>1.8'</td> </tr> <tr> <td>8'</td> <td>4.6'</td> <td>12 fc</td> <td>8 fc</td> <td>6 fc</td> <td>3 fc</td> <td>4.9'</td> <td>5.7'</td> <td>2.4'</td> </tr> <tr> <td>10'</td> <td>5.8'</td> <td>8 fc</td> <td>5 fc</td> <td>4 fc</td> <td>2 fc</td> <td>6.1'</td> <td>7.2'</td> <td>3.0'</td> </tr> <tr> <td>12'</td> <td>6.9'</td> <td>5 fc</td> <td>4 fc</td> <td>2 fc</td> <td>1 fc</td> <td>7.3'</td> <td>8.6'</td> <td>3.7'</td> </tr> </table>	6'	3.5'	21 fc	15 fc	10 fc	6 fc	3.6'	4.3'	1.8'	8'	4.6'	12 fc	8 fc	6 fc	3 fc	4.9'	5.7'	2.4'	10'	5.8'	8 fc	5 fc	4 fc	2 fc	6.1'	7.2'	3.0'	12'	6.9'	5 fc	4 fc	2 fc	1 fc	7.3'	8.6'	3.7'
	2'	3.5'	37 fc	51 fc				14 fc	3 fc	2.1'	5.3'	1.4'																																																																				
	3'	5.2'	16 fc	23 fc				6 fc	1 fc	3.2'	8.0'	2.2'																																																																				
	4'	6.9'	9 fc	13 fc				4 fc	1 fc	4.2'	10.6'	2.9'																																																																				
	6'	10.4'	4 fc	6 fc				2 fc	0 fc	6.3'	15.9'	4.3'																																																																				
	6'	3.5'	21 fc	15 fc				10 fc	6 fc	3.6'	4.3'	1.8'																																																																				
	8'	4.6'	12 fc	8 fc				6 fc	3 fc	4.9'	5.7'	2.4'																																																																				
	10'	5.8'	8 fc	5 fc				4 fc	2 fc	6.1'	7.2'	3.0'																																																																				
	12'	6.9'	5 fc	4 fc				2 fc	1 fc	7.3'	8.6'	3.7'																																																																				
	0°	1168	0° - 20°	438				21%	Dimensions W, L1 and L2 based on beam angle																																																																							
5°	1429	0° - 30°	1042	50%	Dimensions W, L1 and L2 based on beam angle																																																																											
15°	3115	0° - 40°	1651	80%																																																																												
25°	5042	0° - 60°	2028	98%																																																																												
35°	4471	0° - 80°	2060	100%																																																																												
45°	2013	0° - 90°	2066	100%																																																																												
55°	182																																																																															
65°	30																																																																															
75°	7																																																																															
85°	3																																																																															
90°	3																																																																															

Delivered Lumens: 2066
Luminaire Watts: 22.8
Efficacy: 90.61

CP at 0° (Nadir): 1168
CRI: 80+

Beam Angle: 29°

CCT Multiplier: 27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924,
30HK x 0.963, 35HK x 1.0, 40HK 1.021

DUO 2" ROUND

ACCESSIBLE CEILINGS



Spectrum Lighting

2AL2035KW402AMW-MAX - Adjustable

CANDLEPOWER CURVE TEST SP-R1762	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle	INITIAL FC ON HORIZONTAL PLANE 30° aiming angle			
	CP at 0°						
	0°	1412			0° - 10°	131	7%
	5°	1799			0° - 20°	486	25%
	15°	2944			0° - 30°	1005	52%
	25°	3484			0° - 40°	1517	78%
	35°	3274			0° - 60°	1893	97%
	45°	1799			0° - 80°	1937	100%
	55°	397			0° - 90°	1944	100%
	65°	83					
	75°	7					
	85°	4					
90°	3						

Delivered Lumens: 1944	CP at 0° (Nadir): 1412	Beam Angle: 41°	Lumen Multiplier: 8L x 0.274, 10L x 0.454, 15L x 0.548
Luminaire Watts: 22.84	CRI: 80+		27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924,
Efficacy: 85.11			CCT Multiplier: 30HK x 0.963, 35HK x 1.0, 40HK 1.021

2AL2035KXW552AMW-MAX - Adjustable

CANDLEPOWER CURVE TEST SP-R1744	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle	INITIAL FC ON HORIZONTAL PLANE 30° aiming angle			
	CP at 0°						
	0°	2056			0° - 10°	196	11%
	5°	2365			0° - 20°	693	39%
	15°	2755			0° - 30°	1220	69%
	25°	2443			0° - 40°	1586	89%
	35°	1925			0° - 60°	1744	98%
	45°	542			0° - 80°	1773	100%
	55°	88			0° - 90°	1781	100%
	65°	6					
	75°	5					
	85°	2					
90°	3						

Delivered Lumens: 1781	CP at 0° (Nadir): 2056	Beam Angle: 52°	Lumen Multiplier: 8L x 0.274, 10L x 0.454, 15L x 0.548
Luminaire Watts: 22.71	CRI: 80+		27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924,
Efficacy: 78.42			CCT Multiplier: 30HK x 0.963, 35HK x 1.0, 40HK 1.021

DUO 2" ROUND

ACCESSIBLE CEILINGS

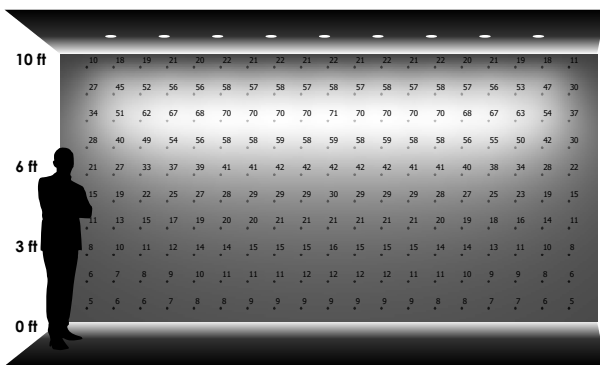


Spectrum Lighting

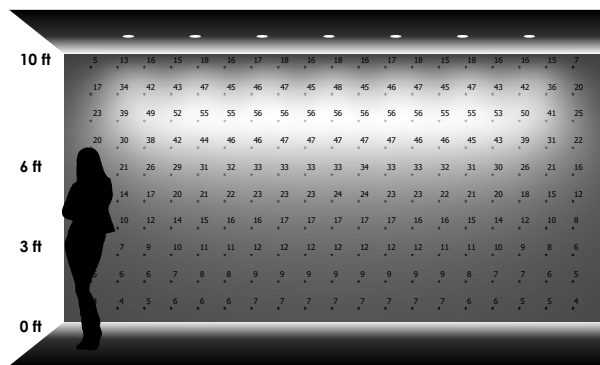
2DL2Q35KW2LW6MW - Wall Wash

CANDLEPOWER CURVE TEST SP-R1530	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	<p>Delivered Lumens: 1548 Luminaire Watts: 22.91 LER: 67.57</p> <p>CP at 0deg (Nadir): 609 CRI: 80+</p> <p>CCT Multiplier: 27K x 0.919, 30K x 0.977, 40K x 1.005, 27HK x 0.924, 30HK x 0.963, 35HK x 1.0, 40HK 1.021</p>	

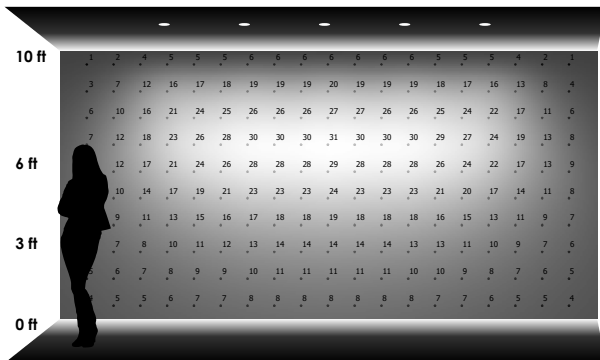
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



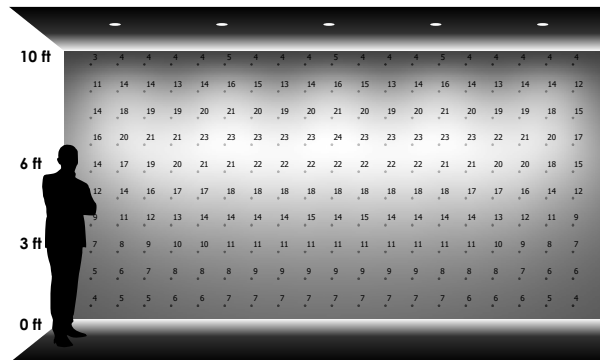
9 LUMINAIRES
 2' - 0" away from wall
 2' - 0" between luminaires



7 LUMINAIRES
 2' - 6" away from wall
 2' - 6" between luminaires



5 LUMINAIRES
 3' - 0" away from wall
 3' - 0" between luminaires



5 LUMINAIRES
 3' - 0" away from wall
 4' - 0" between luminaires