



Spectrum Lighting



DUO 2" SQUARE

INACCESSIBLE 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 inaccessible and non-insulated ceilings only. Multiple beam distributions provide flexibility to the lighting designer.

DOWNLIGHT LUMENS / WATTAGE DATA

PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2DL835KM302SQDMW	658	6.45	658
2DL1035KM302SQDMW	1053	10.99	95.81
2DL1535KM302SQDMW	1376	14.8	92.97
2DL2035KM302SQDMW	2037	22.42	90.86

ADJUSTABLE LUMENS / WATTAGE DATA

PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2AL835KM302SQAMW	565	6.45	87.6
2AL1035KM302SQAMW	860	10.99	78.25
2AL1535KM302SQAMW	1116	14.7	75.92
2AL2035KM302SQAMW	1652	22.54	73.29

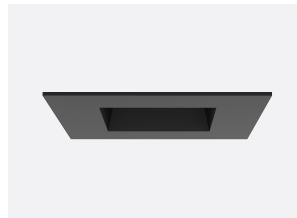
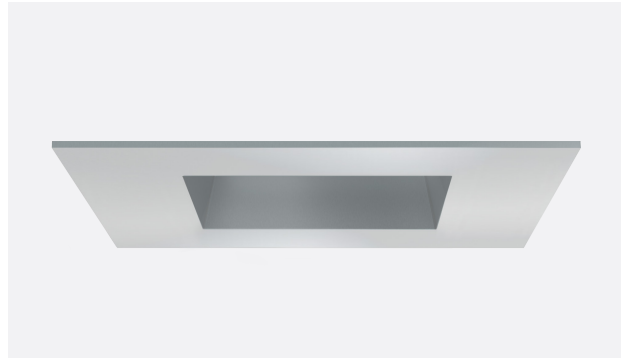
WALL WASH LUMENS / WATTAGE DATA

PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
2DL835KM302SQLW6MW	404	6.45	62.64
2DL1035KM302SQLW6MW	646	10.99	58.78
2DL1535KM302SQLW6MW	843	14.74	57.19
2DL2035KM302SQLW6MW	1161	22.45	51.71

PROJECT:

QUANTITY:

TYPE:



PRODUCT SELECTOR GUIDE

FRAME-IN KIT		DLA ASSEMBLY	LUMENS	CCT	OPTIC	DIMMING	INPUT VOLTAGE		TRIM	TRIM OPTIONS	TRIM FINISH	FLANGE FINISH
	+							+				
EXAMPLE	+							+				
RM2LFKNA	+	2DLNA	10	3K	M30	DX	E1	+	2SQD	L5	MW	MF

FIXTURE HOUSING SPECIFICATION

FRAME-IN KIT	DLA ASSEMBLY	LUMENS	CCT	OPTIC¹	DIMMING	INPUT VOLTAGE
2LFKNA (NEW CONSTRUCTION STYLE) RM2LFKNA (REMODEL STYLE)	2DLNA (DOWNLIGHT & WALL WASH)	80 CRI	27K 2700K 3K 3000K 35K 3500K 4K 4000K	DOWNLIGHT	DX 1% 0-10V, 120V/277V	E1 120 Volt E2 277 Volt
		8 658 Lm 10 1053 Lm 15 1376 Lm 20 2037 Lm		S20 22° M30 29° W40 41° XW55 49°		
	2ALNA (ADJUSTABLE ACCENT)	90 CRI		ADJUSTABLE	DM 120V 2-wire, (DS2W1 / ELV/MLV, 120V)	
	8C9 540 Lm 10C9 865 Lm 15C9 1130 Lm 20C9 1672 Lm	S20 22° M30 29° W40 38° XW55 44°				
	Nominal Delivered lumens from Downlight at 35K 80/90 CRI M30	WALL WASH		1 Beam Distribution based on open trim		
		W Wide Distribution				

TRIM / MODULE SPECIFICATION

TRIM	TRIM OPTIONS	TRIM FINISH	FLANGE FINISH / OPTIONS
DOWNLIGHT	DOWNLIGHT ONLY	MW Matte White MB Matte Black PT Platinum Silver CC Custom Color	MF Match Flange WF White Flange CCF Custom Color Flange NF Flangeless Kit 2 Select MF when choosing MW Trim finish and wanting matching flange 3 Not available with RM2LFKNA Remodel Style Frame-in Kit
2SQD Open Downlight Trim	L5 Diffused Lens L9 Clear Lens HC Honey Comb Louver		
ADJUSTABLE			
2SQA Open Adjustable Trim			
WALL WASH			
2SQLW6 Lensed Wall Wash Trim			



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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 (Remodel is 3/4"). 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. Corded driver assembly features a wiring compartment with a single knock-out enabling a duplex connector to be used for in and out branch wiring. Quick connectors between DLA and driver. DLA and driver are accessible from below, by removing DLA and driver can from the ceiling plenum through the installation hole.

DIMMING

Standard product is compatible with 0-10 volt dimming controls (1%) or 120 volt two-wire, forward/reverse phase (1%). For other dimming options such as Lutron and eldoLED, see other product styles that are only suitable for accessible ceilings.

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. (NF not available on remodel style).

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. Trims are retained securely using magnets. Flangeless option (NF) installs after frame-ins are installed and can be added at a later date if desired. (NF not available in remodel style).

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. (NF not available on remodel style).

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" SQUARE

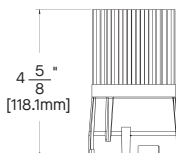
INACCESSIBLE CEILINGS



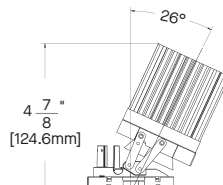
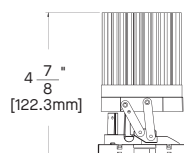
Spectrum Lighting

FIXTURE DIMENSIONS

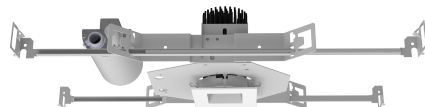
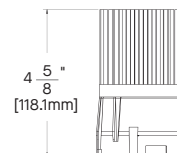
2DLNA & 2SQD - Downlight



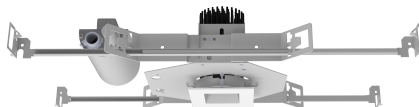
2ALNA & 2SQA - Adjustable



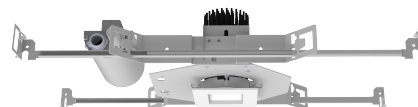
2DLNA & 2SQLW6 - Wall Wash



DOWNLIGHT TRIM SHOWN WITH 2LFKNA - NEW CONSTRUCTION STYLE



ADJUSTABLE TRIM SHOWN WITH 2LFKNA - NEW CONSTRUCTION STYLE



WALL WASH TRIM SHOWN WITH 2LFKNA - NEW CONSTRUCTION STYLE



DOWNLIGHT TRIM SHOWN WITH RM2LFKNA - REMODEL STYLE



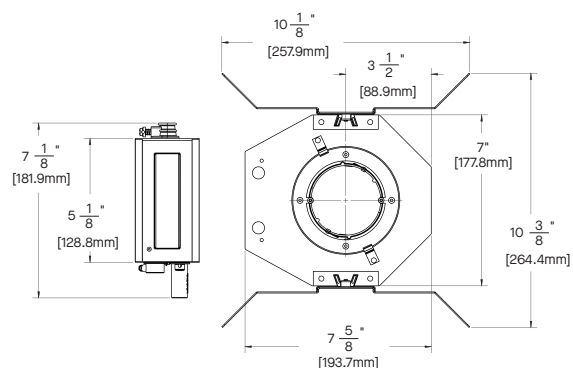
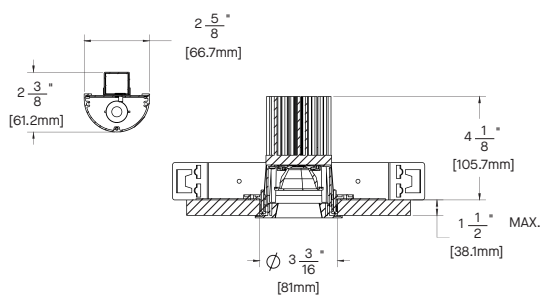
ADJUSTABLE TRIM SHOWN WITH RM2LFKNA - REMODEL STYLE



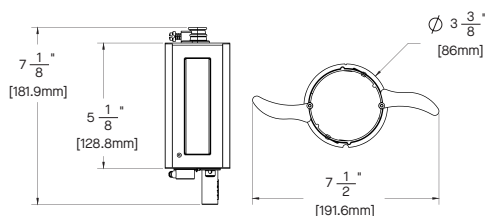
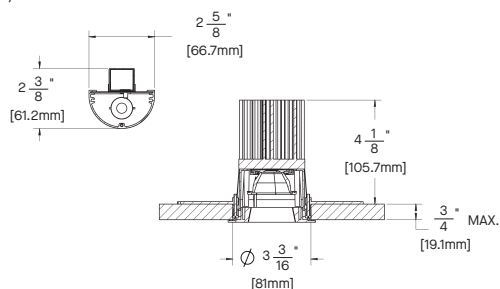
WALL WASH TRIM SHOWN WITH RM2LFKNA - REMODEL STYLE

HOUSING DIMENSIONS

2LFKNA - New Construction Style

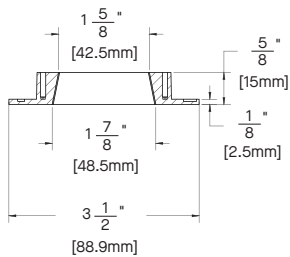


RM2LFKNA - Remodel Style

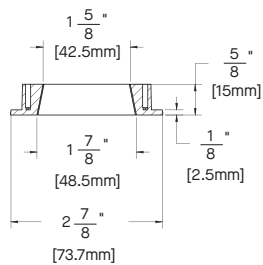


TRIM / MODULE DATA

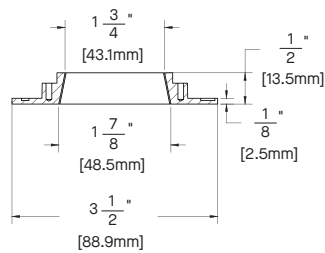
2SQD - Open Downlight Square Trim



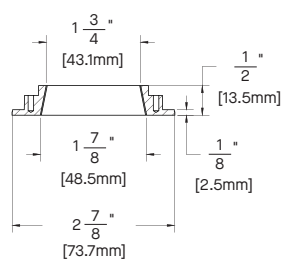
SQ2D NF - Open Downlight Square Trim with Flangeless Kit



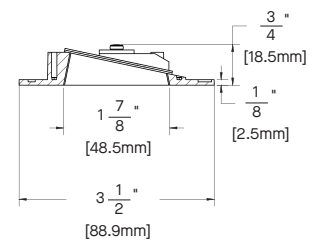
2SQA - Open Adjustable Square Trim



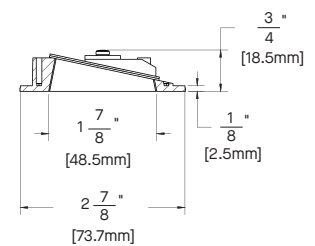
2SQA NF - Open Adjustable Square Trim with Flangeless Kit



2SQLW6 - Lensed Wall Wash Square Trim



2SQLW6 NF - Lensed Wall Wash Square Trim with Flangeless Kit



DUO 2" SQUARE

INACCESSIBLE CEILINGS



Spectrum Lighting

2DL2035KS202SQDMW - Downlight

CANDLEPOWER CURVE TEST SP-R925	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								
	0.00°	0° - 10° 663 32%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00° 8848	0° - 20° 1450 70%	5.5'	293 fc	2.1'	135 fc	9'	2'	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5.00° 8617	0° - 30° 1878 90%	6.5'	209 fc	2.5'	97 fc	12'	4'	133	1.42	132	1.54
	10.00° 6348	0° - 40° 1971 95%	7.5'	157 fc	2.9'	73 fc	16'	6'	50	0.54	65	0.76
	15.00° 3420	0° - 60° 2025 97%	8.5'	122 fc	3.3'	57 fc	Delivered Illuminance Rating: (DIR)		93 FC per W/Sq. Ft.		86 FC per W/Sq. Ft.	
	20.00° 1916	0° - 80° 2070 100%	10.0'	88 fc	3.9'	41 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					
	30.00° 285	0° - 90° 2080 100%	12.0'	61 fc	4.7'	28 fc						
	40.00° 52	Total 2080 100%	14.0'	45 fc	5.4'	21 fc						
	50.00° 33		16.0'	35 fc	6.2'	16 fc						
	60.00° 24											
	70.00° 22											
	80.00° 16											
	90.00° 5											
Delivered Lumens: 2080	CP at 0deg (Nadir): 8848	Beam Angle: 21.91	Lumen Multiplier: 8L x 0.323, 10L x 0.517, 15L x 0.676									
Luminaire Watts: 22.27	CRI: 80+	Spacing Ratio: 0.44	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									
LER: 93.40												

2DL2035KM302SQDMW - Downlight

CANDLEPOWER CURVE TEST SP-R926	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								
	0.00°	0° - 10° 492 24%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00° 5881	0° - 20° 1300 64%							FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5.00° 5868	0° - 30° 1800 88%	5.5 ' 194 fc	2.9 ' 85 fc	9' 2'	430 4.79	389 4.78					
	10.00° 5176	0° - 40° 1919 94%	6.5 ' 139 fc	3.4 ' 61 fc	12' 4'	129 1.43	127 1.55					
	15.00° 3650	0° - 60° 1982 97%	7.5 ' 105 fc	3.9 ' 46 fc	16' 6'	49 0.54	40 0.49					
	20.00° 2211	0° - 80° 2028 100%	8.5 ' 81 fc	4.4 ' 36 fc	Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft.		82 FC per W/Sq. Ft.			
	30.00° 390	0° - 90° 2037 100%	10.0 ' 59 fc	5.2 ' 26 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							
	40.00° 60	Total 2037 100%	12.0 ' 41 fc	6.2 ' 18 fc								
	50.00° 37		14.0 ' 30 fc	7.3 ' 13 fc								
	60.00° 24		16.0 ' 23 fc	8.3 ' 10 fc								
	70.00° 25											
	80.00° 18											
	90.00° 4											
Delivered Lumens: 2037	CP at 0deg (Nadir): 5881	Beam Angle: 29.09	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								
Luminaire Watts: 22.42	CRI: 80+	Spacing Ratio: 0.56	CCT Multiplier:									
LER: 90.86												

2DL2035KW402SQDMW - Downlight

CANDLEPOWER CURVE TEST SP-R927	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								
	0.00°	0° - 10° 335 16%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00° 3733	0° - 20° 1061 52%	5.5' 123 fc	4.1' 49 fc	9' 4'	105 1.19	94 1.19					
	15.00° 2923	0° - 30° 1654 81%	6.5' 88 fc	4.8' 35 fc	12' 4'	126 1.42	78 0.99					
	30.00° 624	0° - 40° 1874 92%	7.5' 66 fc	5.6' 26 fc	16' 6'	48 0.54	39 0.49					
	40.00° 30	0° - 60° 1982 97%	8.5' 52 fc	6.3' 20 fc	Delivered Illuminance Rating: (DIR)		89 FC per W/Sq. Ft.		79 FC per W/Sq. Ft.			
	60.00° 5	0° - 80° 2033 100%	10.0' 37 fc	7.4' 15 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							
	90.00° 5	0° - 90° 2042 100%	12.0' 26 fc	8.9' 10 fc								
		Total 2042 100%	14.0' 19 fc	10.4' 8 fc								
			16.0' 15 fc	11.9' 6 fc								
	Delivered Lumens: 2042	CP at 0deg (Nadir): 3733	Beam Angle: 40.65	Lumen Multiplier: 8L x 0.323, 10L x 0.517, 15L x 0.676								
	Luminaire Watts: 22.27	CRI: 80+	Spacing Ratio: 0.71	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								
	LER: 91.69											

DUO 2" SQUARE

INACCESSIBLE CEILINGS



Spectrum Lighting

2DL2035KXW552SQDMW - Downlight

CANDLEPOWER CURVE TEST SP-R928	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																																									
	0.00°	0° - 10°	255	13%	<table><tr><th rowspan="2">Ceiling Height</th><th rowspan="2">Fixture Spacing</th><th colspan="2">RCR 2</th><th colspan="2">RCR 4</th></tr><tr><th>FC *</th><th>W/Sq. Ft.</th><th>FC *</th><th>W/Sq. Ft.</th></tr><tr><td>9'</td><td>4'</td><td>124</td><td>1.35</td><td>109</td><td>1.35</td></tr><tr><td>12'</td><td>6'</td><td>58</td><td>0.63</td><td>51</td><td>0.63</td></tr><tr><td>16'</td><td>10'</td><td>22</td><td>0.24</td><td>14</td><td>0.18</td></tr><tr><td colspan="2">Delivered Illuminance Rating: (DIR)</td><td colspan="2">91 FC per W/Sq. Ft.</td><td colspan="2">80 FC per W/Sq. Ft.</td></tr><tr><td colspan="6">Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor</td></tr></table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	9'	4'	124	1.35	109	1.35	12'	6'	58	0.63	51	0.63	16'	10'	22	0.24	14	0.18	Delivered Illuminance Rating: (DIR)		91 FC per W/Sq. Ft.		80 FC per W/Sq. Ft.		Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	Ceiling Height	Fixture Spacing	RCR 2					RCR 4																																					
			FC *	W/Sq. Ft.		FC *	W/Sq. Ft.																																						
	9'	4'	124	1.35		109	1.35																																						
	12'	6'	58	0.63		51	0.63																																						
	16'	10'	22	0.24		14	0.18																																						
	Delivered Illuminance Rating: (DIR)		91 FC per W/Sq. Ft.			80 FC per W/Sq. Ft.																																							
	Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor																																												
	0.00°	0° - 20°	876	44%																																									
	5.00°	0° - 30°	1538	77%																																									
	10.00°	0° - 40°	1823	91%																																									
	15.00°	0° - 60°	1938	97%																																									
	20.00°	0° - 80°	1992	100%																																									
30.00°	0° - 90°	2002	100%																																										
40.00°	Total	2002	100%																																										
50.00°																																													
60.00°																																													
70.00°																																													
80.00°																																													
90.00°																																													

Delivered Lumens: 2002
Luminaire Watts: 22.35
LER: 89.57

CP at 0deg (Nadir): 2804
CRI: 80+

Beam Angle: 49.15
Spacing Ratio: 0.89

Lumen Multiplier: 8L x 0.323, 10L x 0.517, 15L x 0.676
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

2AL2035KS202SQAMW-MAX - Adjustable

CANDLEPOWER CURVE TEST SP-R1759	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle	INITIAL FC ON HORIZONTAL PLANE 30° aiming angle						
	CP at 0°	0° - 10° 19 1%								
	0° 105	0° - 20° 168 10%			0° - 30° 691 41%	0° - 40° 1335 80%	0° - 60° 1618 97%	0° - 80° 1660 100%	0° - 90° 1666 100%	
		90° 5								
	Dimensions W, L1 and L2 based on beam angle				Dimensions W, L1 and L2 based on beam angle					

Delivered Lumens: 1666
Luminaire Watts: 22.52
Efficacy: 73.98

CP at 0° (Nadir): 105
CRI: 80+

Beam Angle: 20°

Lumen Multiplier: 8L x 0.29, 10L x 0.494, 15L x 0.592
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

2AL2035KM302SQAMW-MAX - Adjustable

CANDLEPOWER CURVE

TEST SP-R1761

INTENSITY

CP at 0°	0° - 10°	0° - 20°	0° - 30°	0° - 40°	0° - 60°	0° - 80°	0° - 90°
0° 380	55	319	838	1354	1611	1648	1653
5° 911	3%	19%	51%	82%	97%	100%	100%
15° 2662							
25° 4595							
35° 4066							
45° 1137							
55° 100							
65° 14							
75° 8							
85° 5							
90° 3							

ZONAL LUMENS

INITIAL FC ON VERTICAL PLANE

30° aiming angle

A	B	C	1	2	3	W	L1	L2
2'	3.5'	12 fc	15 fc	5 fc	1 fc	1.9'	4.5'	1.3'
3'	5.2'	5 fc	7 fc	2 fc	1 fc	2.8'	6.8'	2.0'
4'	6.9'	3 fc	4 fc	1 fc	0 fc	3.8'	9.1'	2.7'
6'	10.4'	1 fc	2 fc	1 fc	0 fc	5.7'	13.6'	4.0'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE

30° aiming angle

A	B	C	1	2	3	W	L1	L2
6'	3.5'	7 fc	5 fc	3 fc	2 fc	3.3'	3.9'	1.7'
8'	4.6'	4 fc	3 fc	2 fc	1 fc	4.4'	5.1'	2.2'
10'	5.8'	2 fc	2 fc	1 fc	1 fc	5.5'	6.4'	2.8'
12'	6.9'	2 fc	1 fc	1 fc	1 fc	6.5'	7.7'	3.3'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 1653
Luminaire Watts: 22.57
Efficacy: 73.24

CP at 0° (Nadir): 380
CRI: 80+

Beam Angle: 27°

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

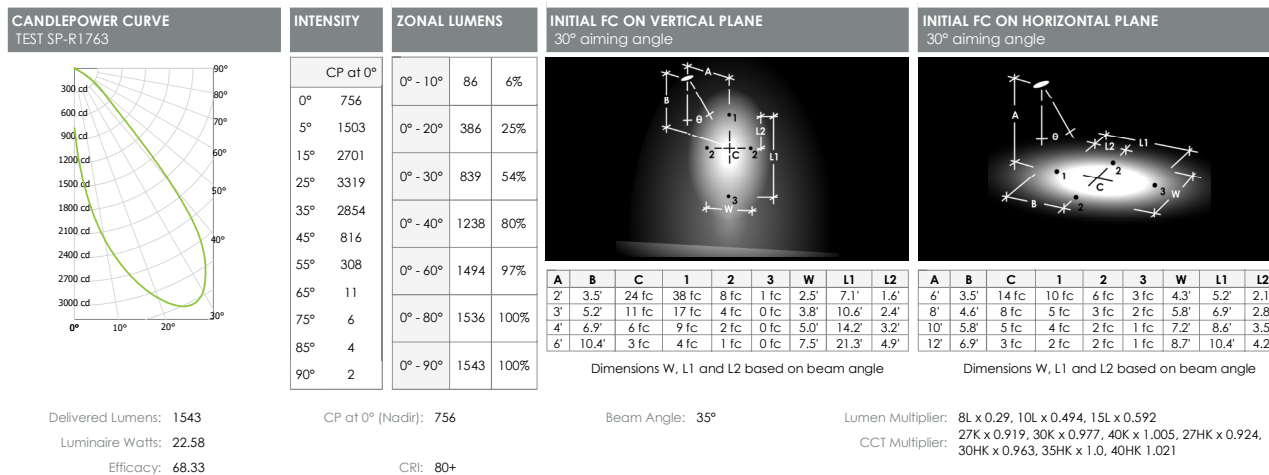
DUO 2" SQUARE

INACCESSIBLE CEILINGS

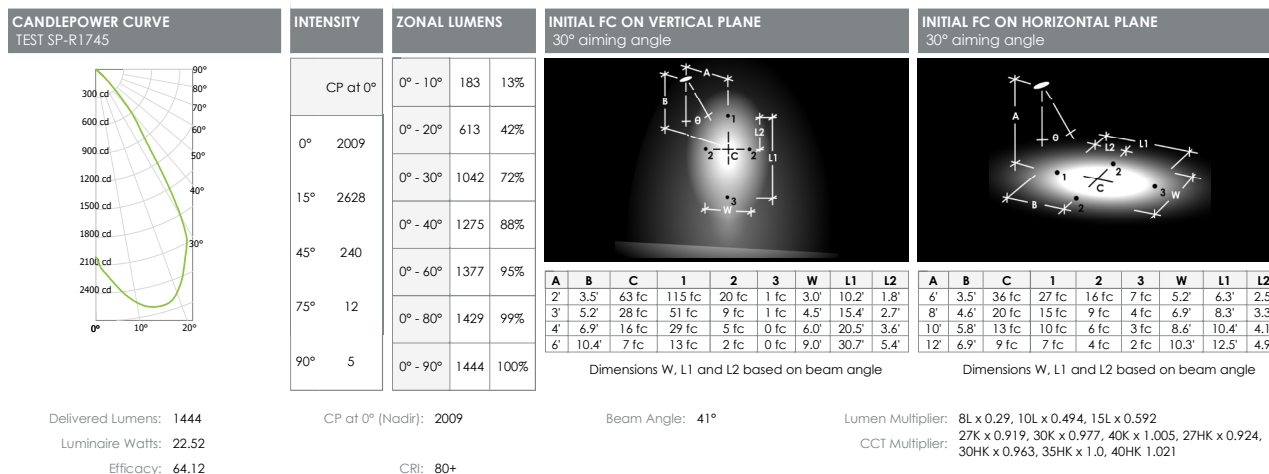


Spectrum Lighting

2AL2035KW402SQAMW-MAX - Adjustable



2AL2035KXW552SQAMW-MAX - Adjustable



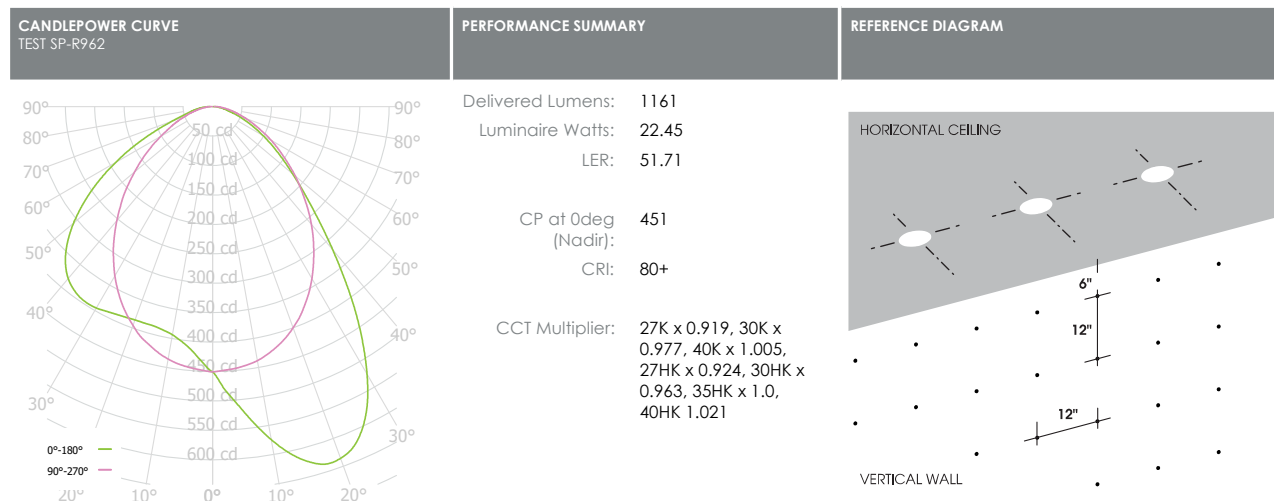
DUO 2" SQUARE

INACCESSIBLE CEILINGS

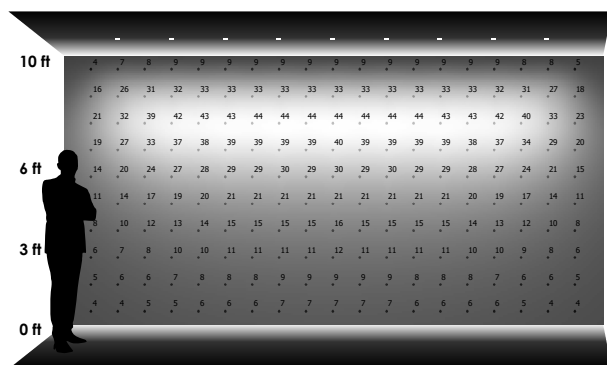


Spectrum Lighting

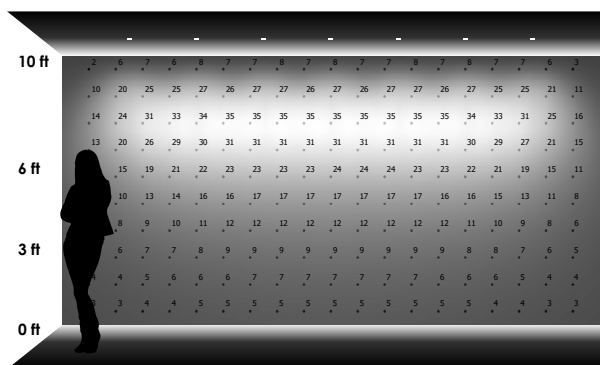
2DL2035KW2SQLW6MW - Wall Wash



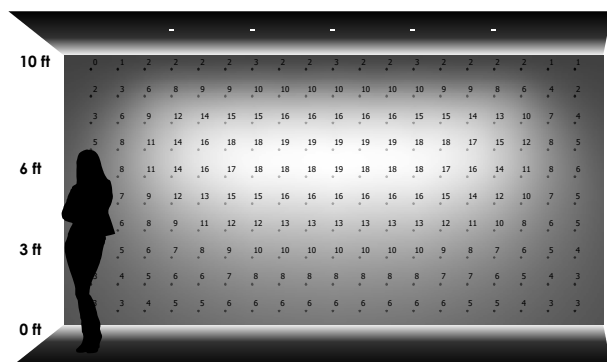
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



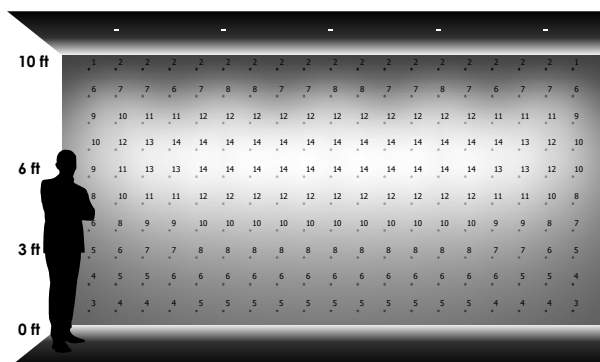
9 LUMINAIRES
2' - 0" away from wall
2' - 0" between luminaires



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