

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HMI1513-LEDOS-55W-40K-E1.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]Intertek

[ISSUE DATE] 1/15/2014

[MANUFAC]SPECTRUM LIGHTING

[LUMCAT]1401080929-001, MOD#: HMI1513LEDOS-55W-40K-E1

[LUMINAIRE]LED AREA LGHT

[LAMP]N/A

[LAMPCAT]N/A

[OTHER]120.0 VAC, 489.94 mA, 58.365 W, 0.9927 PF

[OTHER]Output Multipliers for other CCT's: 35K x 0.9714; 30K x 0.9238; 27K x 0.8619

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	58.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.36
Spacing Criterion (90-270)	2.34
Spacing Criterion (Diagonal)	2.50
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9069	9100	9101
55	13968	13490	13341
65	11541	11326	11310
75	6757	6623	6739
85	4288	4267	4373

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	599.5	599.5	599.5	599.5	599.5
2.5	600.3	604.1	604.1	601.5	596.5
5.0	598.2	605.5	607.1	603.5	595.6
7.5	596.5	607.1	611.1	606.6	595.9
10.0	594.6	606.5	613.8	613.3	598.6
12.5	606.4	613.3	619.6	616.4	603.8
15.0	627.8	626.6	633.8	618.1	608.8
17.5	650.9	643.9	641.9	629.4	622.2
20.0	677.3	662.7	643.6	640.9	632.0
22.5	692.1	674.5	641.0	650.8	645.7
25.0	695.2	687.1	642.6	648.2	657.8
27.5	690.3	697.2	665.2	648.8	677.7
30.0	703.2	716.1	693.6	662.7	718.6
32.5	741.0	747.7	738.9	686.2	765.4
35.0	796.9	786.6	786.4	725.1	809.3
37.5	859.2	819.1	827.8	788.4	846.6
40.0	908.0	843.2	860.1	855.6	881.8
42.5	946.4	872.4	912.6	911.6	927.3
45.0	977.8	899.2	981.1	962.9	981.2
47.5	1029.5	957.7	1066.1	1028.4	1031.0
50.0	1111.0	1045.8	1146.1	1132.8	1105.9
52.5	1225.0	1180.6	1234.8	1258.7	1191.3
55.0	1353.2	1324.4	1306.9	1360.1	1292.4
57.5	1372.5	1337.3	1330.2	1356.6	1346.4
60.0	1175.2	1150.8	1269.8	1227.5	1258.5
62.5	1015.6	971.7	1135.3	1026.8	1121.2
65.0	957.8	936.4	940.0	986.4	938.6
67.5	906.2	913.0	797.3	897.9	814.5
70.0	780.1	777.9	749.7	714.3	714.6
72.5	579.0	580.3	577.6	568.2	571.2
75.0	449.9	449.0	441.0	446.0	448.7
77.5	362.1	359.3	355.0	363.1	363.5
80.0	297.7	296.7	292.3	301.6	300.3
82.5	247.1	245.6	244.9	252.0	251.1
85.0	206.5	205.7	205.5	211.2	210.6
87.5	171.5	170.9	170.0	174.0	175.5
90.0	151.3	150.6	150.9	152.5	153.6
92.5	139.2	138.4	139.0	138.8	140.3
95.0	129.4	128.2	128.3	128.3	128.9
97.5	122.1	120.3	120.3	120.4	120.4
100.0	115.6	113.4	113.5	113.8	113.3
102.5	107.5	105.0	105.5	106.0	104.8
105.0	98.7	96.5	97.2	98.0	96.3
107.5	90.3	88.7	89.2	89.8	88.3
110.0	82.1	80.5	80.9	81.4	80.2
112.5	73.9	71.8	72.9	73.6	72.0
115.0	66.0	64.0	65.5	65.8	65.1
117.5	59.0	57.5	58.9	59.1	58.2
120.0	53.4	51.5	53.5	53.2	52.1
122.5	48.1	45.8	48.8	47.6	47.2
125.0	43.3	40.7	42.5	42.7	42.2
127.5	38.2	35.4	38.0	38.1	37.8
130.0	33.4	30.5	33.7	33.5	33.2
132.5	29.2	26.6	29.4	29.0	28.4

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CANDELA TABULATION - (Cont.)

135.0	24.9	22.6	24.7	24.0	24.0
137.5	20.7	18.6	20.3	19.9	20.5
140.0	17.1	15.1	15.9	16.2	16.8
142.5	13.6	12.2	12.1	12.6	13.3
145.0	9.7	9.0	8.5	9.0	9.9
147.5	6.6	6.2	5.8	5.9	6.6
150.0	3.6	3.4	3.1	3.2	3.9
152.5	1.4	1.1	0.8	0.9	1.2
155.0	0.2	0.0	0.0	0.2	0.2
157.5	0.1	0.1	0.0	0.1	0.1
160.0	0.2	0.2	0.1	0.1	0.0
162.5	0.1	0.1	0.2	0.2	0.2
165.0	0.1	0.0	0.1	0.1	0.1
167.5	0.3	0.1	0.1	0.1	0.1
170.0	0.0	0.2	0.1	0.0	0.0
172.5	0.2	0.0	0.1	0.1	0.1
175.0	0.2	0.1	0.1	0.2	0.1
177.5	0.1	0.0	0.2	0.3	0.0
180.0	0.1	0.1	0.1	0.1	0.1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	235.87	N.A.	4.70
0-30	545.29	N.A.	10.90
0-40	1035.59	N.A.	20.80
0-60	2923.21	N.A.	58.60
0-80	4378.29	N.A.	87.80
0-90	4610.55	N.A.	92.50
10-90	4552.84	N.A.	91.30
20-40	799.72	N.A.	16.00
20-50	1551.59	N.A.	31.10
40-70	2840.85	N.A.	57.00
60-80	1455.08	N.A.	29.20
70-80	501.85	N.A.	10.10
80-90	232.27	N.A.	4.70
90-110	245.25	N.A.	4.90
90-120	310.80	N.A.	6.20
90-130	349.04	N.A.	7.00
90-150	373.98	N.A.	7.50
90-180	374.40	N.A.	7.50
110-180	129.14	N.A.	2.60
0-180	4984.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.72
10-20	178.16
20-30	309.42
30-40	490.30
40-50	751.87
50-60	1135.74
60-70	953.23
70-80	501.85
80-90	232.27
90-100	142.09
100-110	103.17
110-120	65.55
120-130	38.24
130-140	18.89
140-150	6.04
150-160	0.38
160-170	0.03
170-180	0.01

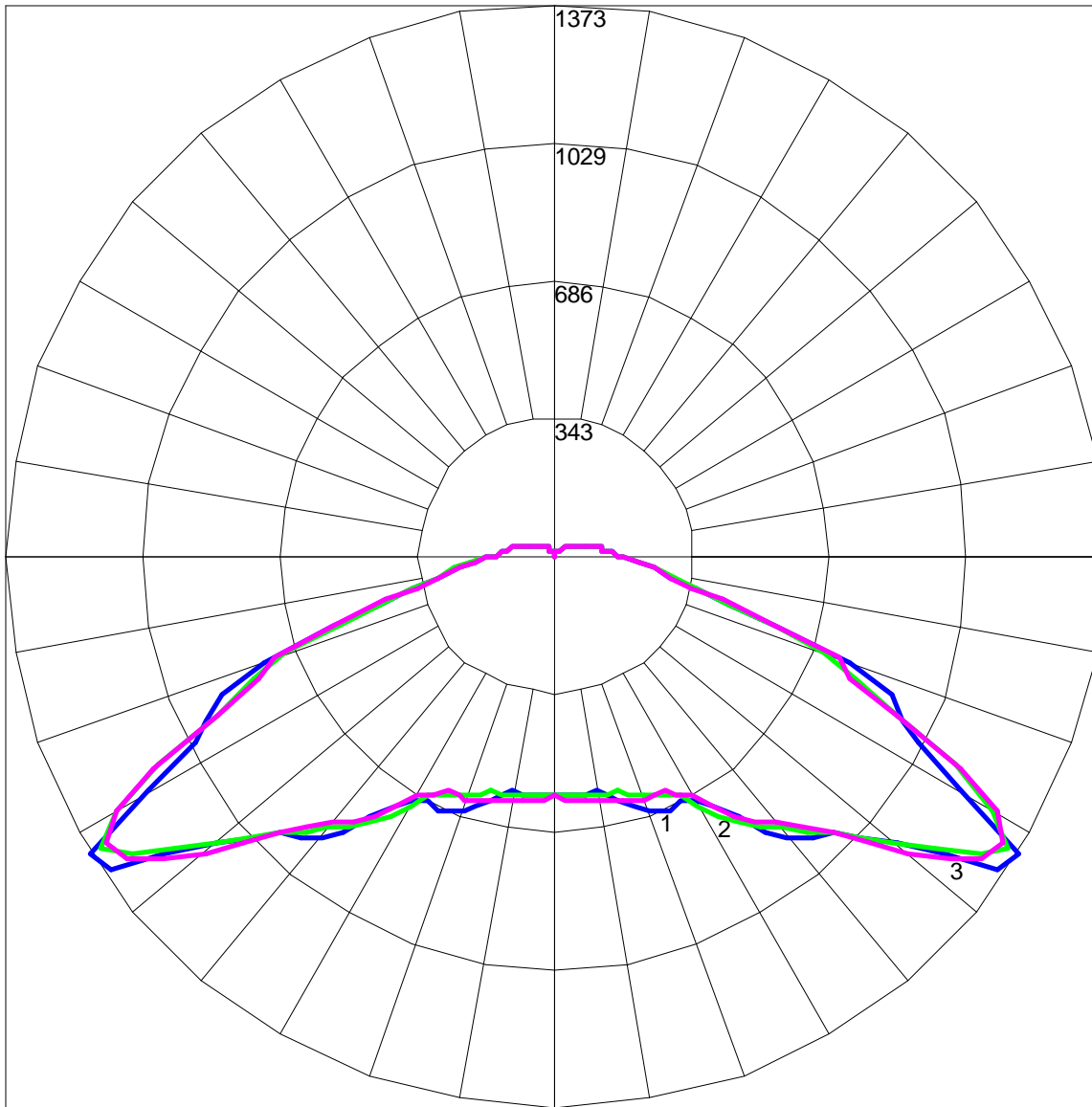
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	104	98	93	88	100	95	90	86	89	85	81	84	81	78	79	76	74	71
2	92	82	74	67	89	80	72	65	75	68	63	70	65	60	66	61	58	55
3	82	70	60	52	79	67	58	51	63	55	49	59	53	47	56	50	45	43
4	74	60	49	42	71	58	48	41	54	46	39	51	44	38	48	42	37	34
5	67	52	42	34	64	50	41	33	47	39	32	44	37	31	42	35	30	27
6	61	46	35	28	58	44	35	28	42	33	27	39	32	26	37	30	25	23
7	56	41	31	24	53	39	30	23	37	29	23	35	27	22	33	26	21	19
8	51	36	27	20	49	35	26	20	33	25	19	31	24	19	30	23	18	16
9	48	33	24	18	46	32	23	17	30	22	17	28	21	16	27	21	16	14
10	44	30	21	16	43	29	21	15	28	20	15	26	19	14	25	18	14	12

POLAR GRAPH



Maximum Candela = 1372.5 Located At Horizontal Angle = 0, Vertical Angle = 57.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)