

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HMI1513LEDOS-78W-40K-E1.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]Intertek

[ISSUE DATE]11/11/2013

[MANUFAC]SPECTRUM LIGHTING

[LUMCAT]1311111108-003, MOD#: HMI1513LEDOS-78W-40K-E1

[LUMINAIRE]LED AREA LIGHT

[LAMP]N/A

[LAMPCAT]N/A

[OTHER]120.1 VAC, 646.5 mA, 77.37 W, 0.9961PF

[OTHER]Output Multipliers for other CCT's: 35K x 0.9714; 30K x 0.9221; 27K x 0.8633

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	77.37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	2.10
Spacing Criterion (Diagonal)	2.34
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.42 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	10543	10343	10499
55	13388	13386	13686
65	18805	17575	17103
75	10764	10812	11846
85	4445	4299	4096

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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	955.9	955.9	955.9	955.9	955.9
2.5	950.4	950.7	951.5	953.4	956.0
5.0	959.9	955.7	950.9	948.5	947.4
7.5	971.2	965.5	955.0	946.0	938.9
10.0	979.4	973.9	960.0	944.4	933.0
12.5	977.4	979.7	965.7	944.0	934.7
15.0	980.4	987.5	981.2	952.4	954.3
17.5	991.4	994.3	1011.0	964.0	985.1
20.0	996.2	1012.1	1029.9	964.5	1019.1
22.5	989.6	1043.7	1029.7	951.9	1046.3
25.0	985.5	1069.5	1026.0	942.7	1051.3
27.5	1006.2	1101.6	1027.6	942.6	1050.2
30.0	1049.3	1138.7	1037.5	957.6	1057.2
32.5	1124.8	1168.8	1084.1	1012.1	1082.7
35.0	1218.9	1182.3	1171.1	1100.4	1121.5
37.5	1304.7	1199.7	1258.7	1195.7	1184.3
40.0	1364.9	1211.1	1330.2	1279.1	1265.6
42.5	1395.7	1223.5	1378.2	1349.3	1353.7
45.0	1422.7	1235.1	1395.7	1410.0	1416.8
47.5	1471.4	1265.8	1432.6	1489.3	1459.0
50.0	1529.1	1347.4	1488.8	1564.6	1501.3
52.5	1562.2	1452.3	1540.2	1603.6	1557.7
55.0	1608.7	1558.2	1608.5	1647.2	1644.5
57.5	1677.7	1669.5	1678.2	1719.3	1740.7
60.0	1768.2	1756.4	1749.3	1780.9	1816.9
62.5	1874.9	1805.7	1799.2	1829.1	1832.4
65.0	1913.0	1759.7	1787.9	1823.3	1739.9
67.5	1650.8	1475.3	1669.2	1621.4	1415.2
70.0	1184.3	1316.8	1330.2	1380.1	1321.8
72.5	1081.0	1148.9	1061.7	1179.1	1415.3
75.0	863.3	870.3	867.2	915.4	950.1
77.5	650.5	618.2	630.8	652.6	641.3
80.0	484.7	452.8	463.6	466.1	447.4
82.5	347.2	324.9	333.3	331.1	316.2
85.0	250.0	235.8	241.8	241.3	230.4
87.5	186.8	180.3	182.8	184.4	180.8
90.0	163.8	162.4	164.1	162.6	160.7
92.5	158.0	156.8	158.3	156.3	154.2
95.0	154.6	153.1	154.6	153.2	150.9
97.5	154.0	151.9	153.0	151.8	149.5
100.0	154.3	152.0	153.0	152.0	150.1
102.5	154.6	153.0	153.6	153.1	151.6
105.0	152.1	151.5	152.4	151.6	149.6
107.5	144.3	142.7	144.4	145.3	143.2
110.0	133.7	131.5	133.2	135.8	133.3
112.5	123.0	120.1	121.8	124.6	121.8
115.0	111.1	107.8	110.5	112.0	109.3
117.5	99.3	95.9	98.4	99.6	96.9
120.0	87.8	83.7	87.3	88.6	85.5
122.5	77.7	73.3	77.6	78.8	76.3
125.0	68.5	64.6	68.3	69.1	67.6
127.5	60.1	56.3	60.6	60.5	59.0
130.0	53.7	49.5	53.6	52.8	51.3
132.5	47.4	43.8	46.8	44.7	44.2

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CANDELA TABULATION - (Cont.)

135.0	40.6	37.5	39.0	37.2	37.5
137.5	33.6	31.3	32.1	30.5	31.6
140.0	26.6	25.0	25.6	24.7	25.9
142.5	20.7	19.4	19.1	18.9	20.1
145.0	14.9	14.4	13.4	13.1	14.6
147.5	9.8	9.7	8.8	8.5	9.8
150.0	5.4	5.1	4.9	4.9	6.1
152.5	1.9	2.0	1.4	2.3	3.3
155.0	0.5	0.4	0.5	0.5	0.9
157.5	0.5	0.6	0.5	0.4	0.5
160.0	0.6	0.5	0.4	0.5	0.6
162.5	0.6	0.6	0.6	0.7	0.7
165.0	0.8	0.5	0.5	0.7	0.5
167.5	0.8	0.8	0.8	0.8	0.7
170.0	0.8	0.8	0.6	0.8	0.8
172.5	0.7	0.7	0.8	0.8	0.6
175.0	0.7	0.8	0.7	0.7	0.8
177.5	0.8	0.8	0.8	0.8	0.8
180.0	0.9	0.9	0.9	0.9	0.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	368.52	N.A.	4.90
0-30	840.58	N.A.	11.20
0-40	1572.04	N.A.	20.90
0-60	4090.31	N.A.	54.30
0-80	6702.71	N.A.	89.00
0-90	6992.89	N.A.	92.90
10-90	6901.74	N.A.	91.70
20-40	1203.52	N.A.	16.00
20-50	2268.61	N.A.	30.10
40-70	4188.15	N.A.	55.60
60-80	2612.4	N.A.	34.70
70-80	942.52	N.A.	12.50
80-90	290.18	N.A.	3.90
90-110	325.69	N.A.	4.30
90-120	435.27	N.A.	5.80
90-130	496.75	N.A.	6.60
90-150	536.15	N.A.	7.10
90-180	537.14	N.A.	7.10
110-180	211.45	N.A.	2.80
0-180	7530.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.15
10-20	277.37
20-30	472.06
30-40	731.46
40-50	1065.09
50-60	1453.17
60-70	1669.89
70-80	942.52
80-90	290.18
90-100	169.12
100-110	156.57
110-120	109.58
120-130	61.47
130-140	30.07
140-150	9.33
150-160	0.74
160-170	0.18
170-180	0.07

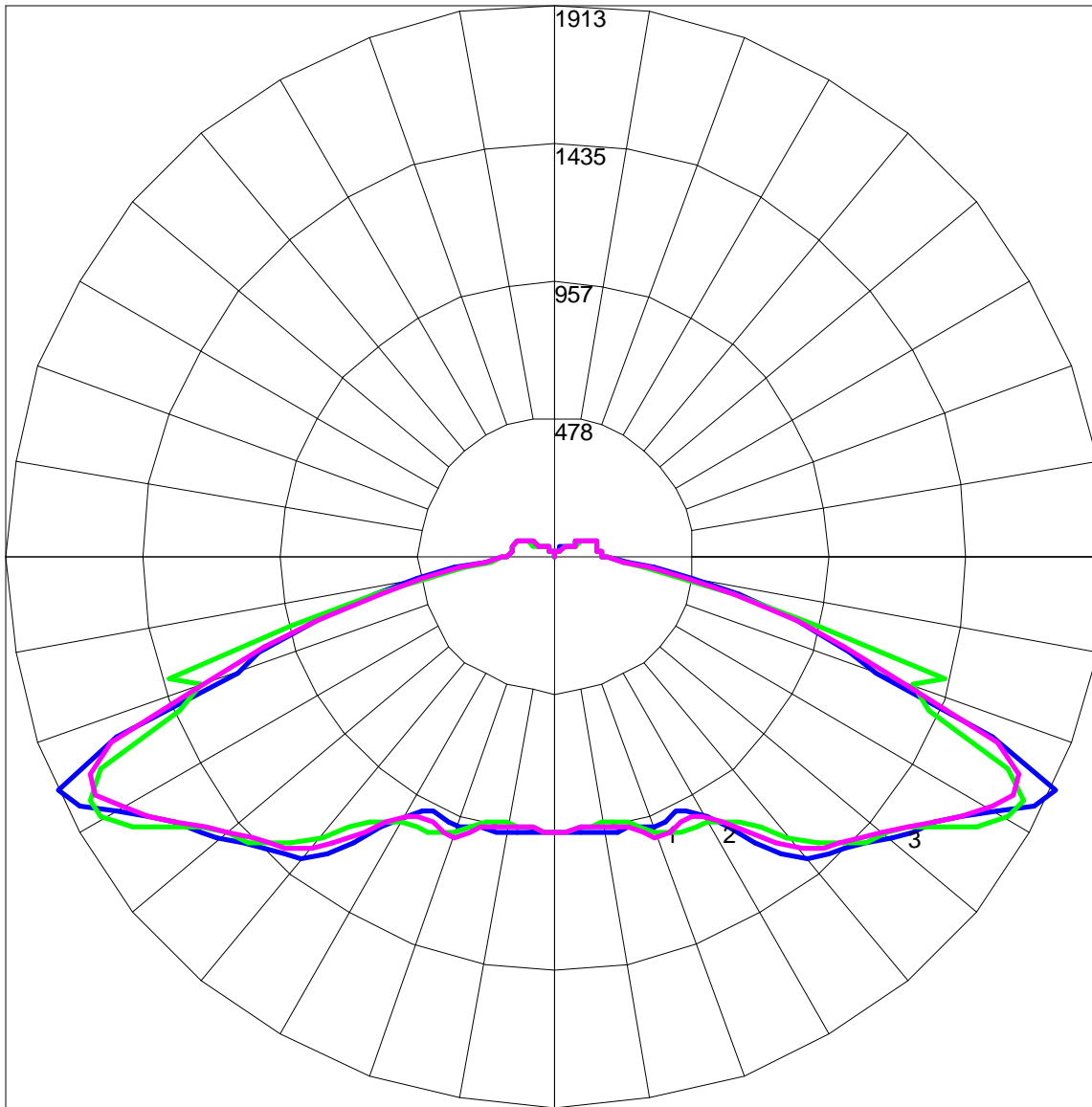
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93
1	104	98	92	87	100	95	90	85	89	85	81	84	80	77	79	76	74	71
2	92	81	73	66	88	79	71	64	74	67	62	69	64	59	65	61	57	54
3	82	69	59	51	78	67	57	50	62	54	48	58	52	46	55	49	44	42
4	73	59	48	40	70	57	47	40	53	45	38	50	43	37	47	41	36	33
5	66	51	41	33	63	50	40	32	46	38	31	44	36	30	41	34	29	27
6	60	45	35	27	58	44	34	27	41	32	26	39	31	25	36	30	24	22
7	55	40	30	23	53	39	29	23	37	28	22	34	27	21	32	26	21	18
8	51	36	26	20	49	35	26	20	33	25	19	31	24	18	29	23	18	16
9	48	33	24	17	46	32	23	17	30	22	17	28	21	16	27	20	16	14
10	44	30	21	15	43	29	21	15	27	20	15	26	19	14	25	18	14	12

POLAR GRAPH



Maximum Candela = 1913 Located At Horizontal Angle = 0, Vertical Angle = 65
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)