



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZDS-PRO-44-LED4-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 10/20/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-44-LED4-LO
 [LUMINAIRE] 38"SQ. X 3"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC, 0.52-0.24A,
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC,
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8376
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.17 ft
Luminous Width (90-270)	2.17 ft
Luminous Height	0.10 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4768	4612	4750
55	4771	4631	4655
65	4814	4826	4584
75	4815	5121	4463
85	6191	6413	5589

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55
5	2462.85	2462.85	2462.85	2462.85	2464.80	2464.80	2462.85	2460.90	2460.90	2460.90
10	2419.95	2418.00	2419.95	2419.95	2421.90	2421.90	2419.95	2419.95	2419.95	2421.90
15	2338.05	2340.00	2338.05	2338.05	2343.90	2347.80	2347.80	2347.80	2347.80	2347.80
20	2226.90	2224.95	2224.95	2224.95	2228.85	2232.75	2234.70	2234.70	2234.70	2236.65
25	2086.50	2086.50	2088.45	2092.35	2096.25	2098.20	2098.20	2100.15	2100.15	2100.15
30	1944.15	1944.15	1946.10	1950.00	1951.95	1953.90	1951.95	1953.90	1951.95	1951.95
35	1803.75	1805.70	1809.60	1811.55	1811.55	1809.60	1805.70	1803.75	1801.80	1801.80
40	1673.10	1675.05	1677.00	1678.95	1677.00	1671.15	1667.25	1663.35	1657.50	1657.50
45	1544.40	1544.40	1550.25	1550.25	1548.30	1542.45	1534.65	1530.75	1524.90	1521.00
50	1413.75	1413.75	1419.60	1421.55	1421.55	1415.70	1409.85	1404.00	1398.15	1394.25
55	1277.25	1279.20	1287.00	1290.90	1290.90	1288.95	1283.10	1279.20	1273.35	1271.40
60	1142.70	1144.65	1156.35	1162.20	1166.10	1166.10	1166.10	1164.15	1160.25	1156.35
65	978.90	982.80	994.50	1004.25	1014.00	1019.85	1021.80	1023.75	1021.80	1017.90
70	809.25	813.15	826.80	838.50	850.20	859.95	867.75	873.60	875.55	871.65
75	639.60	645.45	659.10	672.75	688.35	702.00	711.75	719.55	723.45	721.50
80	487.50	493.35	507.00	520.65	536.25	551.85	563.55	571.35	577.20	575.25
85	360.75	364.65	372.45	382.20	393.90	405.60	415.35	423.15	427.05	427.05
90	171.60	173.55	179.40	189.15	198.90	206.70	214.50	222.30	224.25	224.25
95	185.25	187.20	191.10	198.90	206.70	212.55	218.40	220.35	218.40	214.50
100	198.90	198.90	204.75	212.55	220.35	228.15	234.00	237.90	239.85	234.00
105	154.05	157.95	163.80	171.60	181.35	187.20	193.05	195.00	196.95	204.75
110	120.90	124.80	134.55	146.25	159.90	173.55	187.20	198.90	208.65	212.55
115	146.25	148.20	156.00	165.75	173.55	183.30	189.15	195.00	198.90	200.85
120	140.40	142.35	148.20	154.05	159.90	165.75	171.60	177.45	181.35	181.35
125	126.75	128.70	132.60	138.45	144.30	152.10	157.95	161.85	163.80	165.75
130	117.00	118.95	122.85	128.70	134.55	140.40	144.30	148.20	150.15	152.10
135	111.15	113.10	117.00	120.90	124.80	128.70	134.55	138.45	140.40	138.45
140	101.40	103.35	105.30	111.15	115.05	118.95	120.90	122.85	124.80	126.75
145	93.60	95.55	97.50	99.45	101.40	105.30	107.25	107.25	109.20	109.20
150	81.90	81.90	83.85	87.75	89.70	91.65	93.60	93.60	93.60	93.60
155	72.15	74.10	74.10	76.05	78.00	79.95	79.95	79.95	81.90	81.90
160	64.35	64.35	64.35	66.30	66.30	68.25	70.20	70.20	72.15	72.15
165	56.55	56.55	56.55	56.55	58.50	58.50	58.50	58.50	58.50	58.50
170	46.80	46.80	48.75	48.75	48.75	48.75	46.80	46.80	46.80	46.80
175	40.95	40.95	40.95	40.95	40.95	40.95	39.00	39.00	39.00	39.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55	2474.55
5	2460.90	2462.85	2464.80	2466.75	2466.75	2464.80	2464.80	2464.80	2464.80
10	2419.95	2421.90	2421.90	2423.85	2423.85	2423.85	2423.85	2421.90	2421.90
15	2347.80	2347.80	2349.75	2349.75	2345.85	2343.90	2341.95	2341.95	2341.95
20	2236.65	2236.65	2238.60	2236.65	2232.75	2228.85	2230.80	2232.75	2234.70
25	2102.10	2104.05	2104.05	2102.10	2102.10	2098.20	2098.20	2096.25	2096.25
30	1953.90	1957.80	1957.80	1959.75	1961.70	1957.80	1953.90	1951.95	1953.90
35	1803.75	1807.65	1809.60	1815.45	1817.40	1817.40	1815.45	1813.50	1813.50
40	1659.45	1661.40	1667.25	1673.10	1677.00	1680.90	1678.95	1677.00	1677.00
45	1522.95	1526.85	1532.70	1536.60	1542.45	1544.40	1542.45	1538.55	1538.55
50	1394.25	1396.20	1400.10	1404.00	1405.95	1405.95	1402.05	1396.20	1394.25
55	1269.45	1267.50	1267.50	1267.50	1267.50	1263.60	1257.75	1248.00	1246.05
60	1152.45	1148.55	1144.65	1140.75	1134.90	1127.10	1117.35	1105.65	1103.70

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CANDELA TABULATION - (Cont.)

65	1014.00	1006.20	998.40	988.65	976.95	963.30	949.65	936.00	932.10
70	865.80	856.05	842.40	828.75	813.15	795.60	780.00	764.40	758.55
75	715.65	703.95	688.35	670.80	651.30	631.80	614.25	598.65	592.80
80	569.40	557.70	542.10	524.55	505.05	485.55	466.05	452.40	446.55
85	421.20	411.45	399.75	384.15	368.55	352.95	339.30	329.55	325.65
90	222.30	216.45	208.65	196.95	187.20	175.50	165.75	159.90	157.95
95	206.70	196.95	185.25	175.50	165.75	156.00	146.25	140.40	138.45
100	226.20	216.45	208.65	204.75	200.85	193.05	187.20	181.35	179.40
105	210.60	216.45	212.55	206.70	196.95	187.20	177.45	171.60	169.65
110	212.55	212.55	208.65	200.85	191.10	181.35	171.60	163.80	161.85
115	200.85	198.90	195.00	189.15	181.35	171.60	163.80	157.95	156.00
120	181.35	179.40	173.55	169.65	163.80	156.00	150.15	144.30	142.35
125	165.75	163.80	159.90	154.05	148.20	140.40	134.55	128.70	126.75
130	152.10	150.15	146.25	142.35	134.55	128.70	122.85	118.95	115.05
135	140.40	138.45	134.55	130.65	124.80	118.95	115.05	111.15	109.20
140	124.80	122.85	120.90	118.95	115.05	109.20	105.30	101.40	99.45
145	109.20	107.25	107.25	103.35	101.40	99.45	95.55	93.60	91.65
150	93.60	93.60	91.65	89.70	89.70	85.80	83.85	81.90	81.90
155	81.90	79.95	79.95	78.00	78.00	76.05	74.10	72.15	72.15
160	72.15	70.20	70.20	68.25	66.30	66.30	64.35	64.35	62.40
165	58.50	58.50	58.50	58.50	56.55	56.55	56.55	56.55	54.60
170	46.80	46.80	46.80	46.80	46.80	46.80	46.80	46.80	46.80
175	39.00	39.00	39.00	40.95	40.95	40.95	40.95	40.95	40.95
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	893.74	N.A.	10.70
0-30	1860.54	N.A.	22.20
0-40	2995.29	N.A.	35.80
0-60	5325.87	N.A.	63.60
0-80	7024.19	N.A.	83.90
0-90	7431.78	N.A.	88.70
10-90	7198.00	N.A.	85.90
20-40	2101.55	N.A.	25.10
20-50	3290.37	N.A.	39.30
40-70	3313.66	N.A.	39.60
60-80	1698.32	N.A.	20.30
70-80	715.24	N.A.	8.50
80-90	407.59	N.A.	4.90
90-110	417.84	N.A.	5.00
90-120	591.80	N.A.	7.10
90-130	725.68	N.A.	8.70
90-150	887.94	N.A.	10.60
90-180	944.44	N.A.	11.30
110-180	526.60	N.A.	6.30
0-180	8376.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.78
10-20	659.96
20-30	966.80
30-40	1134.75
40-50	1188.82
50-60	1141.76
60-70	983.08
70-80	715.24
80-90	407.59
90-100	214.47
100-110	203.37
110-120	173.96
120-130	133.87
130-140	97.86
140-150	64.40
150-160	36.34
160-170	16.55
170-180	3.61

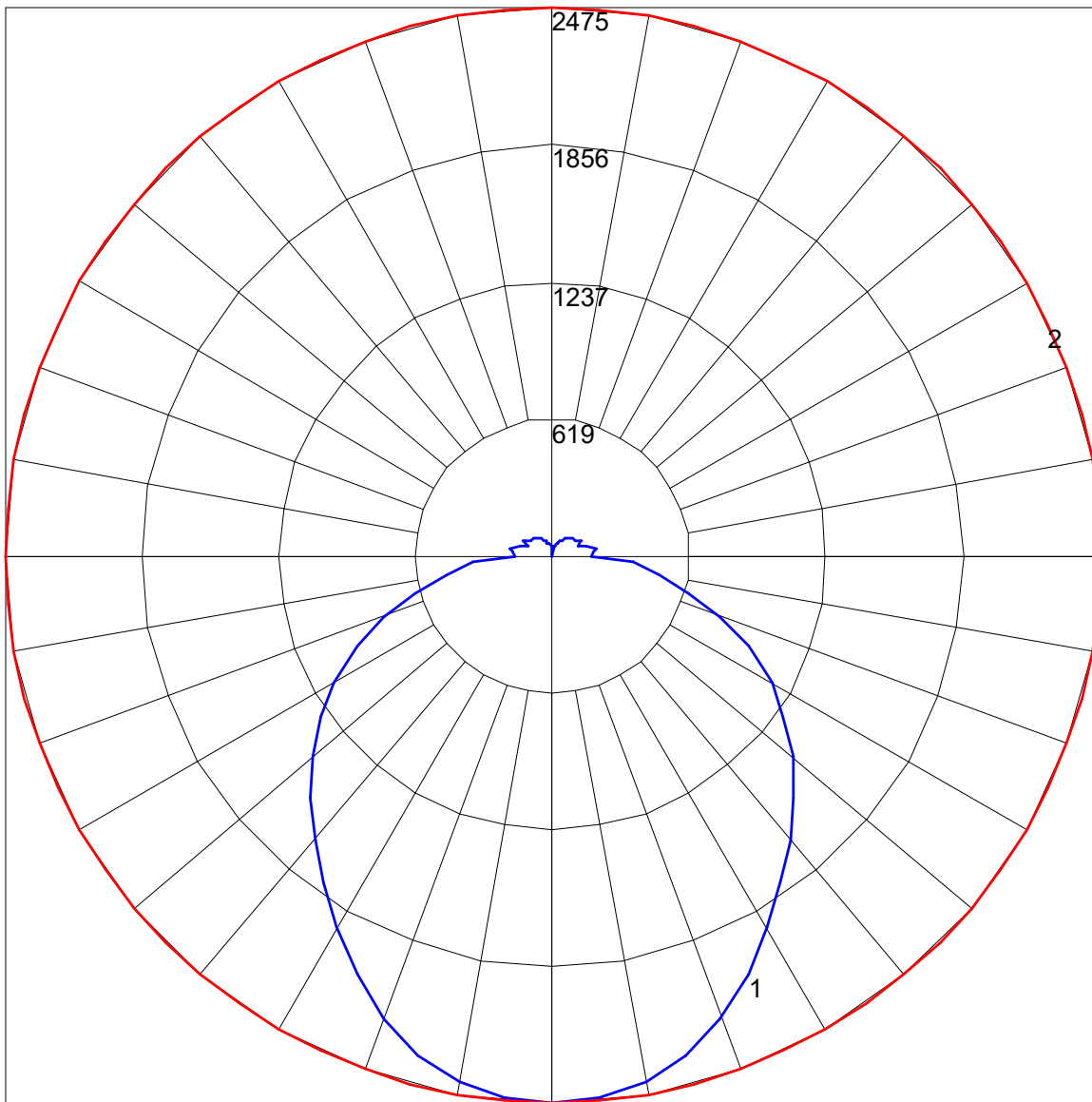
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	99	94	90	101	96	91	87	89	86	82	83	81	78	78	76	74	71
2	94	85	78	72	91	83	76	70	77	72	67	72	68	64	67	64	60	58
3	86	75	66	59	82	72	64	58	67	61	55	63	58	53	59	55	51	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	53	47	43	41
5	72	59	49	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	36	48	41	35	45	39	34	43	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	23	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 2474.55 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)