



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-PRO-22-LED4-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-22-LED4-HO
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [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	12457
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	510	624	501
55	704	898	704
65	1070	1416	1141
75	1725	2161	1900
85	4728	4790	3534

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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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	60.9	60.9	60.9	60.9	60.9	60.9	58.0	58.0	58.0	58.0
10	69.6	69.6	72.5	72.5	72.5	72.5	69.6	69.6	69.6	69.6
15	84.1	84.1	84.1	84.1	87.0	87.0	87.0	87.0	87.0	87.0
20	95.7	95.7	95.7	98.6	98.6	101.5	104.4	104.4	107.3	107.3
25	107.3	110.2	110.2	113.1	116.0	118.9	118.9	118.9	121.8	121.8
30	121.8	121.8	124.7	130.5	133.4	136.3	139.2	139.2	139.2	139.2
35	139.2	142.1	145.0	147.9	150.8	156.6	159.5	159.5	162.4	162.4
40	150.8	153.7	156.6	165.3	171.1	176.9	179.8	182.7	185.6	188.5
45	165.3	168.2	174.0	179.8	185.6	191.4	200.1	205.9	208.8	205.9
50	174.0	176.9	182.7	191.4	200.1	208.8	214.6	220.4	223.3	226.2
55	188.5	191.4	197.2	205.9	214.6	226.2	234.9	240.7	243.6	246.5
60	208.8	211.7	220.4	229.1	237.8	246.5	255.2	263.9	269.7	269.7
65	217.5	220.4	232.0	246.5	258.1	272.6	281.3	290.0	295.8	298.7
70	179.8	185.6	200.1	217.5	237.8	258.1	278.4	295.8	310.3	316.1
75	229.1	234.9	243.6	255.2	269.7	278.4	287.1	290.0	292.9	304.5
80	295.8	295.8	304.5	316.1	327.7	339.3	348.0	353.8	356.7	348.0
85	275.5	278.4	284.2	295.8	307.4	316.1	324.8	327.7	324.8	319.0
90	255.2	258.1	266.8	281.3	295.8	307.4	319.0	330.6	333.5	333.5
95	536.5	542.3	553.9	568.4	585.8	603.2	617.7	629.3	635.1	635.1
100	725.0	733.7	754.0	774.3	797.5	820.7	838.1	849.7	858.4	855.5
105	951.2	959.9	980.2	1000.5	1023.7	1044.0	1058.5	1070.1	1075.9	1073.0
110	1203.5	1209.3	1229.6	1247.0	1264.4	1278.9	1290.5	1299.2	1302.1	1296.3
115	1455.8	1461.6	1479.0	1493.5	1508.0	1516.7	1519.6	1522.5	1519.6	1513.8
120	1699.4	1702.3	1719.7	1728.4	1734.2	1734.2	1734.2	1731.3	1725.5	1719.7
125	1899.5	1902.4	1914.0	1919.8	1919.8	1916.9	1908.2	1902.4	1893.7	1890.8
130	2102.5	2102.5	2111.2	2114.1	2114.1	2105.4	2096.7	2088.0	2079.3	2073.5
135	2296.8	2296.8	2305.5	2305.5	2302.6	2293.9	2282.3	2276.5	2267.8	2262.0
140	2488.2	2491.1	2494.0	2496.9	2494.0	2485.3	2479.5	2473.7	2465.0	2465.0
145	2682.5	2685.4	2691.2	2694.1	2694.1	2691.2	2685.4	2682.5	2679.6	2679.6
150	2891.3	2891.3	2894.2	2900.0	2902.9	2905.8	2902.9	2905.8	2902.9	2902.9
155	3103.0	3103.0	3105.9	3111.7	3117.5	3120.4	3120.4	3123.3	3123.3	3123.3
160	3311.8	3308.9	3308.9	3308.9	3314.7	3320.5	3323.4	3323.4	3323.4	3326.3
165	3477.1	3480.0	3477.1	3477.1	3485.8	3491.6	3491.6	3491.6	3491.6	3491.6
170	3598.9	3596.0	3598.9	3598.9	3601.8	3601.8	3598.9	3598.9	3598.9	3601.8
175	3662.7	3662.7	3662.7	3662.7	3665.6	3665.6	3662.7	3659.8	3659.8	3659.8
180	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	58.0	58.0	58.0	60.9	60.9	60.9	60.9	60.9	60.9
10	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
15	87.0	87.0	87.0	87.0	84.1	84.1	84.1	84.1	81.2
20	107.3	104.4	104.4	101.5	98.6	98.6	95.7	95.7	92.8
25	121.8	118.9	118.9	116.0	116.0	113.1	110.2	107.3	107.3
30	139.2	139.2	136.3	133.4	133.4	127.6	124.7	121.8	121.8
35	162.4	159.5	159.5	153.7	150.8	147.9	142.1	139.2	136.3
40	185.6	182.7	179.8	176.9	171.1	162.4	156.6	150.8	147.9
45	208.8	205.9	200.1	194.3	185.6	176.9	171.1	165.3	162.4
50	226.2	223.3	217.5	211.7	200.1	191.4	182.7	176.9	171.1
55	246.5	243.6	237.8	229.1	220.4	208.8	200.1	191.4	188.5
60	269.7	266.8	258.1	252.3	243.6	232.0	223.3	214.6	211.7

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CANDELA TABULATION - (Cont.)

65	298.7	295.8	290.0	281.3	269.7	255.2	243.6	234.9	232.0
70	316.1	316.1	310.3	298.7	284.2	269.7	255.2	243.6	240.7
75	313.2	321.9	316.1	307.4	292.9	278.4	263.9	255.2	252.3
80	336.4	321.9	310.3	304.5	298.7	287.1	278.4	269.7	266.8
85	307.4	292.9	275.5	261.0	246.5	232.0	217.5	208.8	205.9
90	330.6	321.9	310.3	292.9	278.4	261.0	246.5	237.8	234.9
95	626.4	611.9	594.5	571.3	548.1	524.9	504.6	490.1	484.3
100	846.8	829.4	806.2	780.1	751.1	722.1	693.1	672.8	664.1
105	1064.3	1046.9	1023.7	997.6	968.6	939.6	913.5	890.3	881.6
110	1287.6	1273.1	1252.8	1232.5	1209.3	1183.2	1160.0	1136.8	1128.1
115	1508.0	1496.4	1484.8	1470.3	1452.9	1432.6	1412.3	1392.0	1386.2
120	1713.9	1708.1	1702.3	1696.5	1687.8	1676.2	1661.7	1644.3	1641.4
125	1887.9	1885.0	1885.0	1885.0	1885.0	1879.2	1870.5	1856.0	1853.1
130	2073.5	2076.4	2082.2	2088.0	2090.9	2090.9	2085.1	2076.4	2073.5
135	2264.9	2270.7	2279.4	2285.2	2293.9	2296.8	2293.9	2288.1	2288.1
140	2467.9	2470.8	2479.5	2488.2	2494.0	2499.8	2496.9	2494.0	2494.0
145	2682.5	2688.3	2691.2	2699.9	2702.8	2702.8	2699.9	2697.0	2697.0
150	2905.8	2911.6	2911.6	2914.5	2917.4	2911.6	2905.8	2902.9	2905.8
155	3126.2	3129.1	3129.1	3126.2	3126.2	3120.4	3120.4	3117.5	3117.5
160	3326.3	3326.3	3329.2	3326.3	3320.5	3314.7	3317.6	3320.5	3323.4
165	3491.6	3491.6	3494.5	3494.5	3488.7	3485.8	3482.9	3482.9	3482.9
170	3598.9	3601.8	3601.8	3604.7	3604.7	3604.7	3604.7	3601.8	3601.8
175	3659.8	3662.7	3665.6	3668.5	3668.5	3665.6	3665.6	3665.6	3665.6
180	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1	3680.1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	29.97	N.A.	0.20
0-30	84.02	N.A.	0.70
0-40	179.80	N.A.	1.40
0-60	524.43	N.A.	4.20
0-80	1085.59	N.A.	8.70
0-90	1404.55	N.A.	11.30
10-90	1399.18	N.A.	11.20
20-40	149.82	N.A.	1.20
20-50	295.36	N.A.	2.40
40-70	603.34	N.A.	4.80
60-80	561.16	N.A.	4.50
70-80	302.45	N.A.	2.40
80-90	318.95	N.A.	2.60
90-110	1669.85	N.A.	13.40
90-120	3131.86	N.A.	25.10
90-130	4829.87	N.A.	38.80
90-150	8285.43	N.A.	66.50
90-180	11052.39	N.A.	88.70
110-180	9382.54	N.A.	75.30
0-180	12456.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.37
10-20	24.61
20-30	54.04
30-40	95.78
40-50	145.53
50-60	199.10
60-70	258.71
70-80	302.45
80-90	318.95
90-100	606.16
100-110	1063.69
110-120	1462.01
120-130	1698.01
130-140	1767.99
140-150	1687.57
150-160	1437.8
160-170	981.48
170-180	347.68

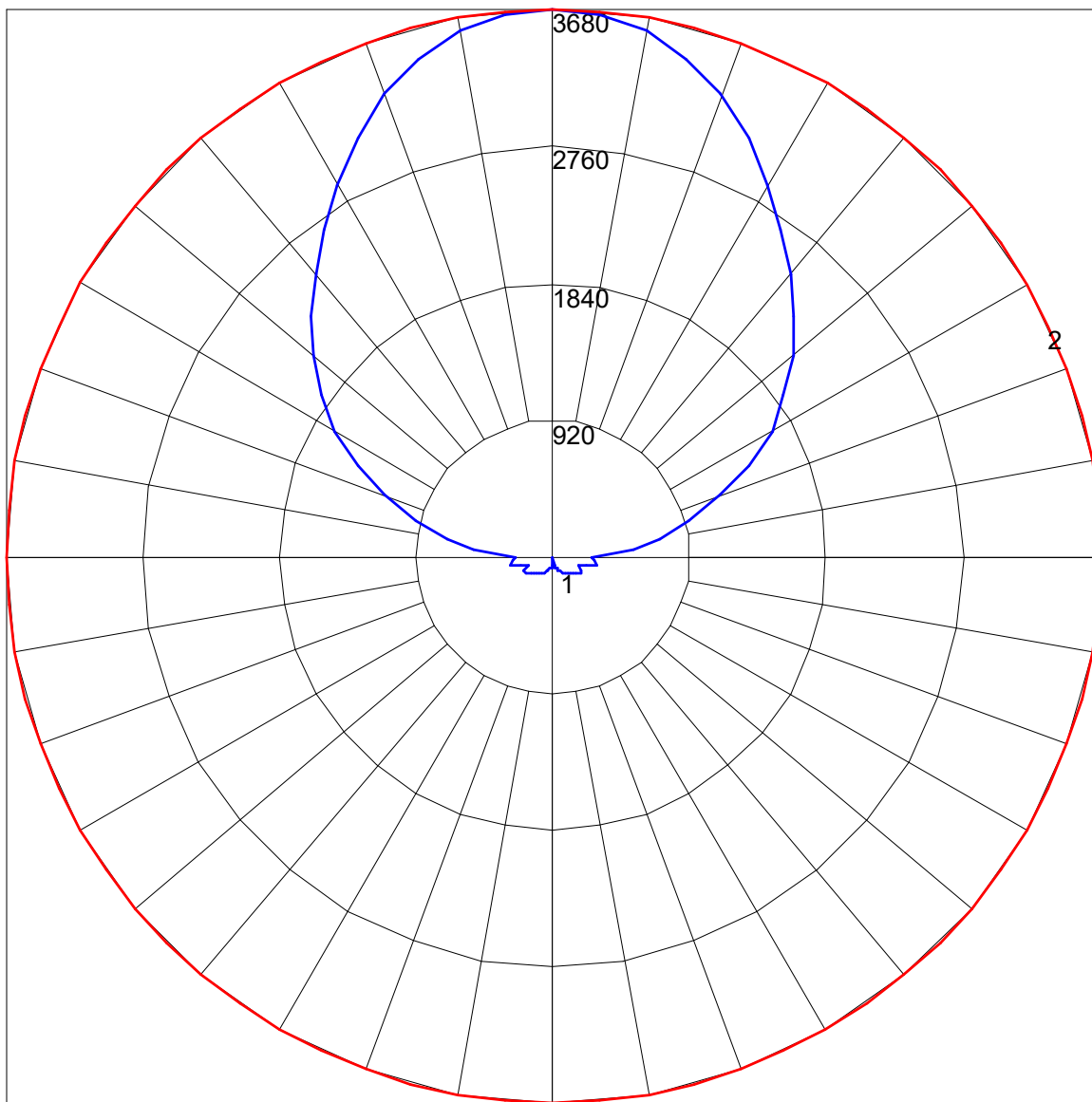
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	85	85	85	85	62	62	62	40	40	40	21	21	21	11
1	88	83	79	75	76	72	69	66	52	50	48	33	32	31	16	15	15	7
2	79	72	66	60	69	62	57	53	45	41	38	28	26	25	13	12	11	5
3	72	63	55	49	62	54	48	43	39	35	32	25	22	20	11	10	9	3
4	66	55	47	41	57	48	41	36	34	30	26	22	19	17	10	9	7	3
5	60	49	41	35	52	42	36	31	30	26	22	19	16	14	9	7	6	2
6	55	43	35	30	47	38	31	26	27	22	19	17	14	12	8	6	5	2
7	50	39	31	26	44	34	27	22	24	20	16	15	13	10	7	6	5	1
8	47	35	27	22	40	30	24	20	22	17	14	14	11	9	6	5	4	1
9	43	31	24	19	37	27	21	17	20	15	12	13	10	8	6	4	3	1
10	40	29	22	17	35	25	19	15	18	14	11	11	9	7	5	4	3	1

POLAR GRAPH



Maximum Candela = 3680.1 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)