



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101403501
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-22-LED4-SO
 [LUMINAIRE] 26"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	12113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	100
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	6896	6669	6869
55	6900	6697	6732
65	6962	6979	6629
75	6964	7405	6454
85	8954	9274	8083

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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	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58
5	3561.66	3561.66	3561.66	3561.66	3564.48	3564.48	3561.66	3558.84	3558.84	3558.84
10	3499.62	3496.80	3499.62	3499.62	3502.44	3502.44	3499.62	3499.62	3499.62	3502.44
15	3381.18	3384.00	3381.18	3381.18	3389.64	3395.28	3395.28	3395.28	3395.28	3395.28
20	3220.44	3217.62	3217.62	3217.62	3223.26	3228.90	3231.72	3231.72	3231.72	3234.54
25	3017.40	3017.40	3020.22	3025.86	3031.50	3034.32	3034.32	3037.14	3037.14	3037.14
30	2811.54	2811.54	2814.36	2820.00	2822.82	2825.64	2822.82	2825.64	2822.82	2822.82
35	2608.50	2611.32	2616.96	2619.78	2619.78	2616.96	2611.32	2608.50	2605.68	2605.68
40	2419.56	2422.38	2425.20	2428.02	2425.20	2416.74	2411.10	2405.46	2397.00	2397.00
45	2233.44	2233.44	2241.90	2241.90	2239.08	2230.62	2219.34	2213.70	2205.24	2199.60
50	2044.50	2044.50	2052.96	2055.78	2055.78	2047.32	2038.86	2030.40	2021.94	2016.30
55	1847.10	1849.92	1861.20	1866.84	1866.84	1864.02	1855.56	1849.92	1841.46	1838.64
60	1652.52	1655.34	1672.26	1680.72	1686.36	1686.36	1686.36	1683.54	1677.90	1672.26
65	1415.64	1421.28	1438.20	1452.30	1466.40	1474.86	1477.68	1480.50	1477.68	1472.04
70	1170.30	1175.94	1195.68	1212.60	1229.52	1243.62	1254.90	1263.36	1266.18	1260.54
75	924.96	933.42	953.16	972.90	995.46	1015.20	1029.30	1040.58	1046.22	1043.40
80	705.00	713.46	733.20	752.94	775.50	798.06	814.98	826.26	834.72	831.90
85	521.70	527.34	538.62	552.72	569.64	586.56	600.66	611.94	617.58	617.58
90	248.16	250.98	259.44	273.54	287.64	298.92	310.20	321.48	324.30	324.30
95	267.90	270.72	276.36	287.64	298.92	307.38	315.84	318.66	315.84	310.20
100	287.64	287.64	296.10	307.38	318.66	329.94	338.40	344.04	346.86	338.40
105	222.78	228.42	236.88	248.16	262.26	270.72	279.18	282.00	284.82	296.10
110	174.84	180.48	194.58	211.50	231.24	250.98	270.72	287.64	301.74	307.38
115	211.50	214.32	225.60	239.70	250.98	265.08	273.54	282.00	287.64	290.46
120	203.04	205.86	214.32	222.78	231.24	239.70	248.16	256.62	262.26	262.26
125	183.30	186.12	191.76	200.22	208.68	219.96	228.42	234.06	236.88	239.70
130	169.20	172.02	177.66	186.12	194.58	203.04	208.68	214.32	217.14	219.96
135	160.74	163.56	169.20	174.84	180.48	186.12	194.58	200.22	203.04	200.22
140	146.64	149.46	152.28	160.74	166.38	172.02	174.84	177.66	180.48	183.30
145	135.36	138.18	141.00	143.82	146.64	152.28	155.10	155.10	157.92	157.92
150	118.44	118.44	121.26	126.90	129.72	132.54	135.36	135.36	135.36	135.36
155	104.34	107.16	107.16	109.98	112.80	115.62	115.62	115.62	118.44	118.44
160	93.06	93.06	93.06	95.88	95.88	98.70	101.52	101.52	104.34	104.34
165	81.78	81.78	81.78	81.78	84.60	84.60	84.60	84.60	84.60	84.60
170	67.68	67.68	70.50	70.50	70.50	70.50	67.68	67.68	67.68	67.68
175	59.22	59.22	59.22	59.22	59.22	59.22	56.40	56.40	56.40	56.40
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	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58	3578.58
5	3558.84	3561.66	3564.48	3567.30	3567.30	3564.48	3564.48	3564.48	3564.48
10	3499.62	3502.44	3502.44	3505.26	3505.26	3505.26	3505.26	3502.44	3502.44
15	3395.28	3395.28	3398.10	3398.10	3392.46	3389.64	3386.82	3386.82	3386.82
20	3234.54	3234.54	3237.36	3234.54	3228.90	3223.26	3226.08	3228.90	3231.72
25	3039.96	3042.78	3042.78	3039.96	3039.96	3034.32	3034.32	3031.50	3031.50
30	2825.64	2831.28	2831.28	2834.10	2836.92	2831.28	2825.64	2822.82	2825.64
35	2608.50	2614.14	2616.96	2625.42	2628.24	2628.24	2625.42	2622.60	2622.60
40	2399.82	2402.64	2411.10	2419.56	2425.20	2430.84	2428.02	2425.20	2425.20
45	2202.42	2208.06	2216.52	2222.16	2230.62	2233.44	2230.62	2224.98	2224.98
50	2016.30	2019.12	2024.76	2030.40	2033.22	2033.22	2027.58	2019.12	2016.30
55	1835.82	1833.00	1833.00	1833.00	1833.00	1827.36	1818.90	1804.80	1801.98
60	1666.62	1660.98	1655.34	1649.70	1641.24	1629.96	1615.86	1598.94	1596.12

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

CANDELA TABULATION - (Cont.)

65	1466.40	1455.12	1443.84	1429.74	1412.82	1393.08	1373.34	1353.60	1347.96
70	1252.08	1237.98	1218.24	1198.50	1175.94	1150.56	1128.00	1105.44	1096.98
75	1034.94	1018.02	995.46	970.08	941.88	913.68	888.30	865.74	857.28
80	823.44	806.52	783.96	758.58	730.38	702.18	673.98	654.24	645.78
85	609.12	595.02	578.10	555.54	532.98	510.42	490.68	476.58	470.94
90	321.48	313.02	301.74	284.82	270.72	253.80	239.70	231.24	228.42
95	298.92	284.82	267.90	253.80	239.70	225.60	211.50	203.04	200.22
100	327.12	313.02	301.74	296.10	290.46	279.18	270.72	262.26	259.44
105	304.56	313.02	307.38	298.92	284.82	270.72	256.62	248.16	245.34
110	307.38	307.38	301.74	290.46	276.36	262.26	248.16	236.88	234.06
115	290.46	287.64	282.00	273.54	262.26	248.16	236.88	228.42	225.60
120	262.26	259.44	250.98	245.34	236.88	225.60	217.14	208.68	205.86
125	239.70	236.88	231.24	222.78	214.32	203.04	194.58	186.12	183.30
130	219.96	217.14	211.50	205.86	194.58	186.12	177.66	172.02	166.38
135	203.04	200.22	194.58	188.94	180.48	172.02	166.38	160.74	157.92
140	180.48	177.66	174.84	172.02	166.38	157.92	152.28	146.64	143.82
145	157.92	155.10	155.10	149.46	146.64	143.82	138.18	135.36	132.54
150	135.36	135.36	132.54	129.72	129.72	124.08	121.26	118.44	118.44
155	118.44	115.62	115.62	112.80	112.80	109.98	107.16	104.34	104.34
160	104.34	101.52	101.52	98.70	95.88	95.88	93.06	93.06	90.24
165	84.60	84.60	84.60	84.60	81.78	81.78	81.78	81.78	78.96
170	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68	67.68
175	56.40	56.40	56.40	59.22	59.22	59.22	59.22	59.22	59.22
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	1292.49	N.A.	10.70
0-30	2690.63	N.A.	22.20
0-40	4331.65	N.A.	35.80
0-60	7702.03	N.A.	63.60
0-80	10158.06	N.A.	83.90
0-90	10747.5	N.A.	88.70
10-90	10409.41	N.A.	85.90
20-40	3039.16	N.A.	25.10
20-50	4758.38	N.A.	39.30
40-70	4792.07	N.A.	39.60
60-80	2456.03	N.A.	20.30
70-80	1034.35	N.A.	8.50
80-90	589.44	N.A.	4.90
90-110	604.26	N.A.	5.00
90-120	855.84	N.A.	7.10
90-130	1049.44	N.A.	8.70
90-150	1284.1	N.A.	10.60
90-180	1365.8	N.A.	11.30
110-180	761.54	N.A.	6.30
0-180	12113.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.09
10-20	954.40
20-30	1398.14
30-40	1641.02
40-50	1719.22
50-60	1651.16
60-70	1421.68
70-80	1034.35
80-90	589.44
90-100	310.16
100-110	294.11
110-120	251.58
120-130	193.60
130-140	141.52
140-150	93.14
150-160	52.55
160-170	23.93
170-180	5.22

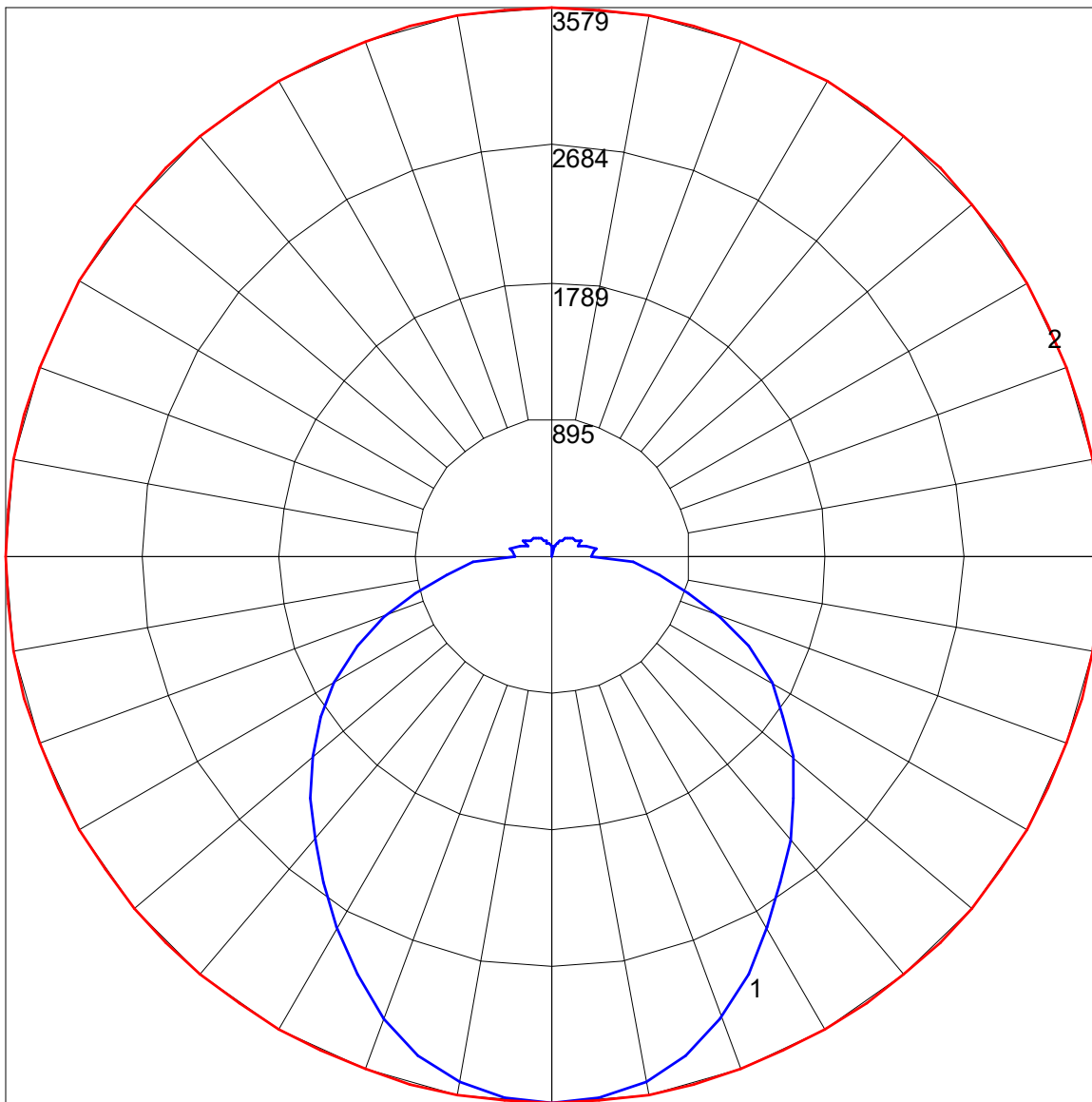
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3578.58 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.)