



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P42-LED35HO-SAL-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041411802
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 5/14/2014
 [MANUFACTURER] PRUDENTIAL LIGHTING
 [LUMCAT] P42-LED35LO-SAL-TMW-D1-SC-UNV-X1
 [LUMINAIRE] 5"SQ. X 47-3/4"L. LED LUMINAIRES
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC OT/UNV/DIM/L
 [BALLAST] INPUT: 120-277VAC, [LAMPPOSITION] 0,0
 [LAMP CAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 19W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3446
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10477	9633	8964
55	9475	8561	7897
65	8555	7757	7107
75	7259	6581	6099
85	5897	5691	5650

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860
5	1479.632	1479.588	1479.852	1479.720	1480.248	1481.546	1482.602	1483.174	1482.844	1482.118
10	1447.930	1447.622	1447.468	1446.830	1446.918	1447.512	1447.996	1449.602	1451.054	1450.746
15	1399.530	1399.750	1400.146	1400.190	1400.652	1401.400	1396.032	1390.136	1387.100	1384.196
20	1337.842	1337.314	1334.718	1328.184	1323.234	1321.034	1318.108	1314.324	1311.948	1311.838
25	1245.420	1244.958	1243.308	1240.734	1237.720	1234.266	1232.176	1232.044	1219.614	1210.264
30	1151.150	1150.468	1148.488	1145.232	1141.756	1141.888	1140.304	1123.672	1115.532	1109.834
35	1047.684	1047.024	1044.978	1041.436	1040.600	1040.380	1024.408	1015.146	1009.184	996.666
40	939.422	938.410	936.166	932.052	930.820	930.072	913.308	902.682	901.186	880.814
45	834.988	833.734	825.616	820.512	815.386	814.902	800.492	791.208	779.658	767.778
50	716.342	716.012	717.244	717.772	704.682	696.388	696.322	679.998	668.008	657.800
55	612.546	613.140	613.712	602.316	596.794	595.342	579.524	570.834	561.814	553.498
60	515.042	516.252	517.044	508.464	503.932	497.244	487.784	479.732	469.656	463.760
65	407.506	408.980	411.070	404.184	400.752	393.294	387.728	381.810	375.980	369.512
70	309.012	309.034	304.832	302.434	298.254	294.448	290.708	287.694	282.348	281.666
75	211.772	209.792	210.892	206.118	204.446	203.830	202.356	197.934	195.096	191.994
80	126.346	126.214	124.278	124.168	124.850	122.100	120.252	119.064	117.788	116.644
85	57.926	56.826	57.948	56.518	56.408	56.386	56.364	56.210	56.056	55.902
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860	1498.860
5	1481.216	1480.556	1479.742	1478.510	1478.180	1478.114	1479.742	1480.556	1480.468
10	1445.752	1440.736	1438.800	1436.908	1435.192	1433.168	1432.948	1436.512	1436.644
15	1380.676	1379.400	1380.478	1371.964	1368.004	1365.320	1363.780	1366.640	1366.112
20	1300.618	1293.798	1288.716	1288.056	1283.546	1276.682	1273.998	1275.406	1275.208
25	1203.356	1202.146	1189.232	1182.764	1181.026	1173.348	1169.520	1169.014	1168.860
30	1099.758	1087.680	1082.950	1073.270	1066.318	1066.648	1056.836	1055.758	1055.582
35	984.412	981.156	965.800	959.860	953.810	945.252	941.468	939.840	939.598
40	870.496	860.376	851.906	843.722	836.704	830.698	826.804	825.242	824.670
45	757.548	748.638	740.058	732.006	725.076	719.488	716.144	714.846	714.450
50	648.648	640.266	632.324	624.712	618.486	614.064	610.258	608.872	608.740
55	545.666	537.834	530.552	524.040	519.046	515.042	511.896	510.268	510.554
60	456.610	450.626	443.894	438.504	434.632	430.848	428.384	426.734	426.998
65	362.494	356.752	351.934	347.556	344.432	341.374	339.922	338.602	338.558
70	273.680	268.576	264.396	261.668	259.116	257.312	256.036	255.046	254.804
75	188.826	186.252	184.052	182.380	180.906	179.850	178.838	178.244	177.914
80	115.544	114.576	113.586	112.794	112.222	111.694	111.144	110.814	110.616
85	55.748	55.638	55.528	55.484	55.462	55.440	55.462	55.484	55.506
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	529.57	N.A.	15.40
0-30	1086.35	N.A.	31.50
0-40	1709.34	N.A.	49.60
0-60	2807.51	N.A.	81.50
0-80	3383.14	N.A.	98.20
0-90	3445.69	N.A.	100.00
10-90	3305.48	N.A.	95.90
20-40	1179.76	N.A.	34.20
20-50	1775.55	N.A.	51.50
40-70	1467.15	N.A.	42.60
60-80	575.63	N.A.	16.70
70-80	206.65	N.A.	6.00
80-90	62.54	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3445.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.21
10-20	389.36
20-30	556.78
30-40	622.99
40-50	595.78
50-60	502.39
60-70	368.98
70-80	206.65
80-90	62.54
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

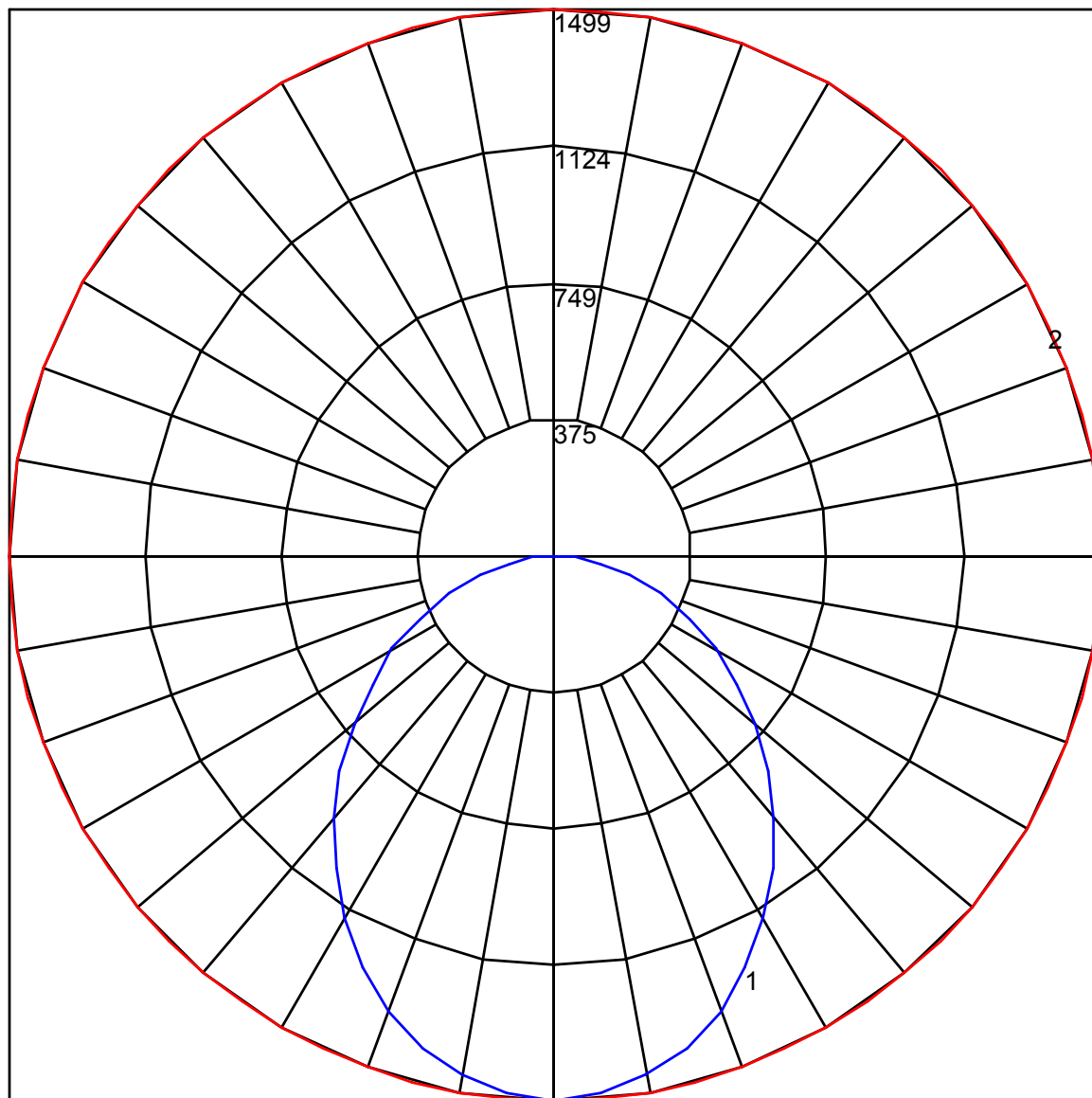
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1498.86 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.)