



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P42-LED35SO-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-LED35SO-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, 39W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	39
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	8572	7882	7334
55	7752	7005	6461
65	6999	6347	5815
75	5939	5385	4990
85	4824	4656	4623

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340
5	1210.608	1210.572	1210.788	1210.680	1211.112	1212.174	1213.038	1213.506	1213.236	1212.642
10	1184.670	1184.418	1184.292	1183.770	1183.842	1184.328	1184.724	1186.038	1187.226	1186.974
15	1145.070	1145.250	1145.574	1145.610	1145.988	1146.600	1142.208	1137.384	1134.900	1132.524
20	1094.598	1094.166	1092.042	1086.696	1082.646	1080.846	1078.452	1075.356	1073.412	1073.322
25	1018.980	1018.602	1017.252	1015.146	1012.680	1009.854	1008.144	1008.036	997.866	990.216
30	941.850	941.292	939.672	937.008	934.164	934.272	932.976	919.368	912.708	908.046
35	857.196	856.656	854.982	852.084	851.400	851.220	838.152	830.574	825.696	815.454
40	768.618	767.790	765.954	762.588	761.580	760.968	747.252	738.558	737.334	720.666
45	683.172	682.146	675.504	671.328	667.134	666.738	654.948	647.352	637.902	628.182
50	586.098	585.828	586.836	587.268	576.558	569.772	569.718	556.362	546.552	538.200
55	501.174	501.660	502.128	492.804	488.286	487.098	474.156	467.046	459.666	452.862
60	421.398	422.388	423.036	416.016	412.308	406.836	399.096	392.508	384.264	379.440
65	333.414	334.620	336.330	330.696	327.888	321.786	317.232	312.390	307.620	302.328
70	252.828	252.846	249.408	247.446	244.026	240.912	237.852	235.386	231.012	230.454
75	173.268	171.648	172.548	168.642	167.274	166.770	165.564	161.946	159.624	157.086
80	103.374	103.266	101.682	101.592	102.150	99.900	98.388	97.416	96.372	95.436
85	47.394	46.494	47.412	46.242	46.152	46.134	46.116	45.990	45.864	45.738
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	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340	1226.340
5	1211.904	1211.364	1210.698	1209.690	1209.420	1209.366	1210.698	1211.364	1211.292
10	1182.888	1178.784	1177.200	1175.652	1174.248	1172.592	1172.412	1175.328	1175.436
15	1129.644	1128.600	1129.482	1122.516	1119.276	1117.080	1115.820	1118.160	1117.728
20	1064.142	1058.562	1054.404	1053.864	1050.174	1044.558	1042.362	1043.514	1043.352
25	984.564	983.574	973.008	967.716	966.294	960.012	956.880	956.466	956.340
30	899.802	889.920	886.050	878.130	872.442	872.712	864.684	863.802	863.658
35	805.428	802.764	790.200	785.340	780.390	773.388	770.292	768.960	768.762
40	712.224	703.944	697.014	690.318	684.576	679.662	676.476	675.198	674.730
45	619.812	612.522	605.502	598.914	593.244	588.672	585.936	584.874	584.550
50	530.712	523.854	517.356	511.128	506.034	502.416	499.302	498.168	498.060
55	446.454	440.046	434.088	428.760	424.674	421.398	418.824	417.492	417.726
60	373.590	368.694	363.186	358.776	355.608	352.512	350.496	349.146	349.362
65	296.586	291.888	287.946	284.364	281.808	279.306	278.118	277.038	277.002
70	223.920	219.744	216.324	214.092	212.004	210.528	209.484	208.674	208.476
75	154.494	152.388	150.588	149.220	148.014	147.150	146.322	145.836	145.566
80	94.536	93.744	92.934	92.286	91.818	91.386	90.936	90.666	90.504
85	45.612	45.522	45.432	45.396	45.378	45.360	45.378	45.396	45.414
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	433.29	N.A.	15.40
0-30	888.83	N.A.	31.50
0-40	1398.55	N.A.	49.60
0-60	2297.05	N.A.	81.50
0-80	2768.02	N.A.	98.20
0-90	2819.2	N.A.	100.00
10-90	2704.48	N.A.	95.90
20-40	965.26	N.A.	34.20
20-50	1452.72	N.A.	51.50
40-70	1200.4	N.A.	42.60
60-80	470.97	N.A.	16.70
70-80	169.08	N.A.	6.00
80-90	51.17	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	2819.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.71
10-20	318.57
20-30	455.54
30-40	509.72
40-50	487.46
50-60	411.05
60-70	301.89
70-80	169.08
80-90	51.17
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

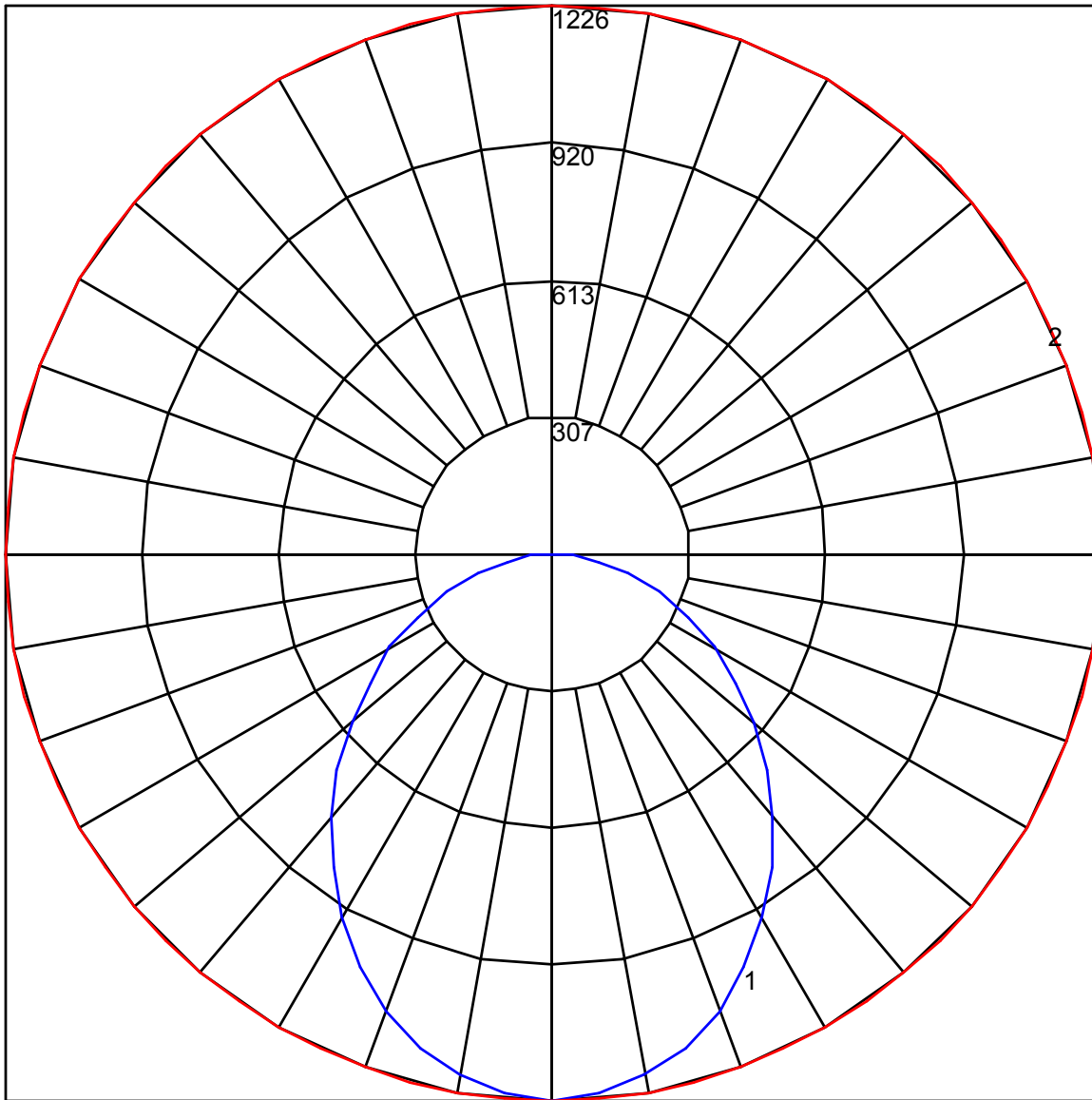
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	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	78	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	37	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 = 1226.34 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.)