



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SNAP-R1-LED4HO-04-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412301
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 5/5/2014
 [MANUFACT] PRUDENTIAL LIGHTING
 [LUMCAT] R1-LED4SO-04-SAL-YGW-UNV-SUR
 [LUMINAIRE] 48-1/4"L X 1-3/8"W X 3-1/4"H. LED LUMINAIRE.
 [MORE] DIFFUSED LENS.
 [BALLASTCAT] OSRAM OPTOTRONIC OTUNV/DIM/L
 [BALLAST] INPUT: 120-277VAC
 [LAMP CAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 48W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.11 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35080	14609	9986
55	37271	12146	7117
65	41393	9988	4608
75	51252	8167	2409
85	90119	6648	657

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688
5	1317.273	1317.064	1316.878	1316.484	1316.484	1316.206	1315.811	1315.115	1314.837	1314.350
10	1309.872	1309.478	1308.898	1308.202	1306.949	1305.789	1304.327	1302.750	1300.917	1299.061
15	1295.650	1295.070	1294.096	1292.449	1290.198	1287.368	1284.259	1280.547	1276.951	1273.146
20	1274.422	1273.750	1271.986	1269.063	1265.374	1260.688	1255.445	1249.390	1242.383	1235.771
25	1245.794	1244.726	1242.290	1238.300	1232.639	1225.934	1217.861	1208.395	1198.674	1189.232
30	1209.764	1208.604	1205.101	1199.649	1192.526	1183.571	1172.667	1160.394	1146.962	1133.436
35	1167.517	1166.055	1161.763	1154.850	1145.314	1133.436	1119.794	1104.018	1087.082	1069.636
40	1117.451	1115.618	1110.445	1102.278	1090.678	1076.550	1060.194	1041.309	1020.661	999.734
45	1060.588	1058.546	1052.793	1043.652	1030.498	1014.049	995.350	973.449	949.483	925.146
50	998.273	995.930	989.712	979.666	964.981	947.047	926.028	901.390	874.988	847.334
55	930.900	928.742	921.829	910.925	895.543	876.171	853.760	827.196	798.358	769.057
60	859.235	856.683	849.677	838.680	823.090	802.650	780.054	752.399	722.216	689.991
65	784.833	782.698	775.576	764.579	748.803	728.457	704.398	676.744	645.888	613.060
70	707.902	705.767	699.039	688.530	673.241	653.173	629.903	602.458	571.787	538.959
75	633.894	631.852	625.634	615.589	601.182	582.482	560.280	533.229	502.837	470.218
80	558.331	556.382	551.046	541.882	528.450	511.305	490.564	465.253	436.322	405.072
85	486.666	485.019	480.147	471.981	459.986	444.419	425.627	402.149	375.283	345.866
90	421.034	419.688	415.094	408.088	397.486	383.566	366.421	345.587	320.462	293.480
95	362.430	361.247	357.466	351.132	341.690	329.231	314.035	295.243	272.646	247.915
100	311.390	310.323	306.913	301.275	292.900	281.810	268.262	251.511	231.258	208.962
105	267.589	266.800	263.482	258.425	250.931	241.094	228.914	213.649	195.924	176.343
110	230.190	229.216	226.386	221.908	214.994	206.132	195.321	181.795	165.834	148.689
115	198.244	197.270	194.857	190.658	184.417	176.436	166.715	154.628	140.406	125.118
120	170.590	169.731	167.481	163.490	158.038	150.730	141.868	130.964	118.413	104.980
125	146.067	145.487	143.330	139.734	134.676	127.948	119.782	110.223	99.226	87.626
130	123.865	123.285	121.220	118.018	113.634	107.300	100.201	91.826	82.476	72.454
135	103.402	102.822	101.175	98.345	94.169	88.810	82.778	75.655	66.398	57.258
140	84.726	84.239	82.778	80.226	76.537	72.245	67.094	59.392	52.107	45.379
145	67.976	67.582	66.306	64.171	61.341	57.350	51.713	46.748	42.062	37.491
150	53.940	53.847	52.873	51.504	49.370	45.078	41.296	37.677	34.870	31.946
155	43.825	43.430	42.850	41.574	38.280	35.450	33.014	31.158	28.443	26.587
160	34.870	34.568	33.988	31.645	29.603	27.956	26.866	25.613	24.244	22.690
165	26.866	26.773	25.427	23.664	22.202	21.901	21.901	21.622	20.741	19.859
170	20.254	19.859	18.606	18.305	18.792	18.792	18.885	18.699	18.305	18.119
175	16.750	15.590	15.869	16.356	16.658	16.750	16.750	16.750	16.658	16.565
180	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	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688	1318.688
5	1313.862	1313.375	1312.888	1312.702	1312.401	1312.006	1312.006	1311.821	1311.612
10	1297.205	1295.349	1293.794	1292.240	1290.686	1289.618	1288.830	1288.250	1288.250
15	1268.878	1264.678	1260.990	1257.394	1254.262	1251.640	1249.877	1248.624	1248.137
20	1228.649	1221.735	1215.309	1209.277	1204.034	1199.533	1196.146	1194.197	1193.594
25	1178.792	1168.491	1158.933	1149.699	1141.695	1135.083	1129.933	1126.708	1125.432
30	1119.006	1104.993	1091.560	1079.287	1068.290	1058.941	1051.818	1047.248	1045.392
35	1051.238	1033.421	1016.276	1000.129	986.209	974.214	964.865	958.926	956.791
40	977.346	955.724	934.496	915.008	897.492	882.783	871.206	863.806	860.975
45	898.559	873.642	848.517	825.827	805.086	788.034	774.022	764.858	761.656
50	817.638	789.705	761.749	735.370	711.219	690.664	674.401	663.706	659.414
55	736.438	705.187	673.914	644.218	617.538	593.595	574.687	562.322	557.357
60	655.238	621.528	587.749	555.222	524.946	498.359	476.830	462.330	456.692

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65	577.030	540.908	504.786	469.243	436.717	406.719	382.870	366.212	359.298
70	501.955	465.438	427.274	390.085	354.635	322.016	293.782	274.502	266.614
75	434.188	396.790	358.811	319.394	281.694	245.479	213.742	191.330	181.308
80	370.017	333.407	294.942	255.618	216.549	177.619	143.330	117.438	105.746
85	312.574	277.310	240.700	201.654	162.910	123.076	87.835	59.392	46.145
90	262.415	229.309	194.950	157.946	121.522	83.938	51.017	23.478	3.712
95	219.681	189.498	158.038	124.538	91.826	59.114	31.366	10.997	0.000
100	183.744	156.577	128.621	99.134	70.899	43.616	22.110	6.821	0.000
105	153.862	129.897	105.560	80.040	55.982	33.292	15.474	0.000	0.000
110	128.830	108.089	86.861	64.844	44.706	26.007	13.920	0.000	0.000
115	107.996	89.784	71.572	52.966	35.937	21.808	12.946	0.000	0.000
120	89.877	74.495	58.812	43.129	30.090	19.674	12.760	0.000	0.000
125	74.774	61.248	48.210	35.635	25.613	17.910	12.667	0.000	0.000
130	60.366	49.068	38.558	29.905	22.295	16.750	12.458	0.000	0.000
135	47.722	39.834	32.805	25.520	20.346	16.170	0.000	0.000	0.000
140	38.953	33.594	27.353	23.084	18.978	15.474	0.000	0.000	0.000
145	33.408	28.443	24.731	21.042	17.632	14.894	0.000	0.000	0.000
150	28.142	25.311	22.295	19.372	16.658	14.709	0.000	0.000	0.000
155	24.824	22.388	19.952	17.818	16.263	14.802	0.000	0.000	0.000
160	21.321	19.674	18.305	17.145	16.170	0.000	0.000	0.000	0.000
165	19.094	18.398	17.632	16.936	15.962	0.000	0.000	0.000	0.000
170	17.818	17.423	16.936	16.356	15.776	0.000	0.000	0.000	0.000
175	16.356	16.078	15.869	15.776	15.382	0.000	0.000	0.000	0.000
180	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	484.12	N.A.	9.40
0-30	1031.51	N.A.	20.00
0-40	1698.82	N.A.	32.90
0-60	3086.44	N.A.	59.70
0-80	4145.12	N.A.	80.20
0-90	4488.36	N.A.	86.90
10-90	4363.4	N.A.	84.50
20-40	1214.7	N.A.	23.50
20-50	1924.05	N.A.	37.20
40-70	1977.26	N.A.	38.30
60-80	1058.68	N.A.	20.50
70-80	469.03	N.A.	9.10
80-90	343.24	N.A.	6.60
90-110	407.02	N.A.	7.90
90-120	519.47	N.A.	10.10
90-130	592.63	N.A.	11.50
90-150	660.11	N.A.	12.80
90-180	678.13	N.A.	13.10
110-180	271.11	N.A.	5.20
0-180	5166.49	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.96
10-20	359.15
20-30	547.39
30-40	667.31
40-50	709.35
50-60	678.27
60-70	589.65
70-80	469.03
80-90	343.24
90-100	240.73
100-110	166.28
110-120	112.46
120-130	73.16
130-140	43.69
140-150	23.79
150-160	11.92
160-170	4.95
170-180	1.15

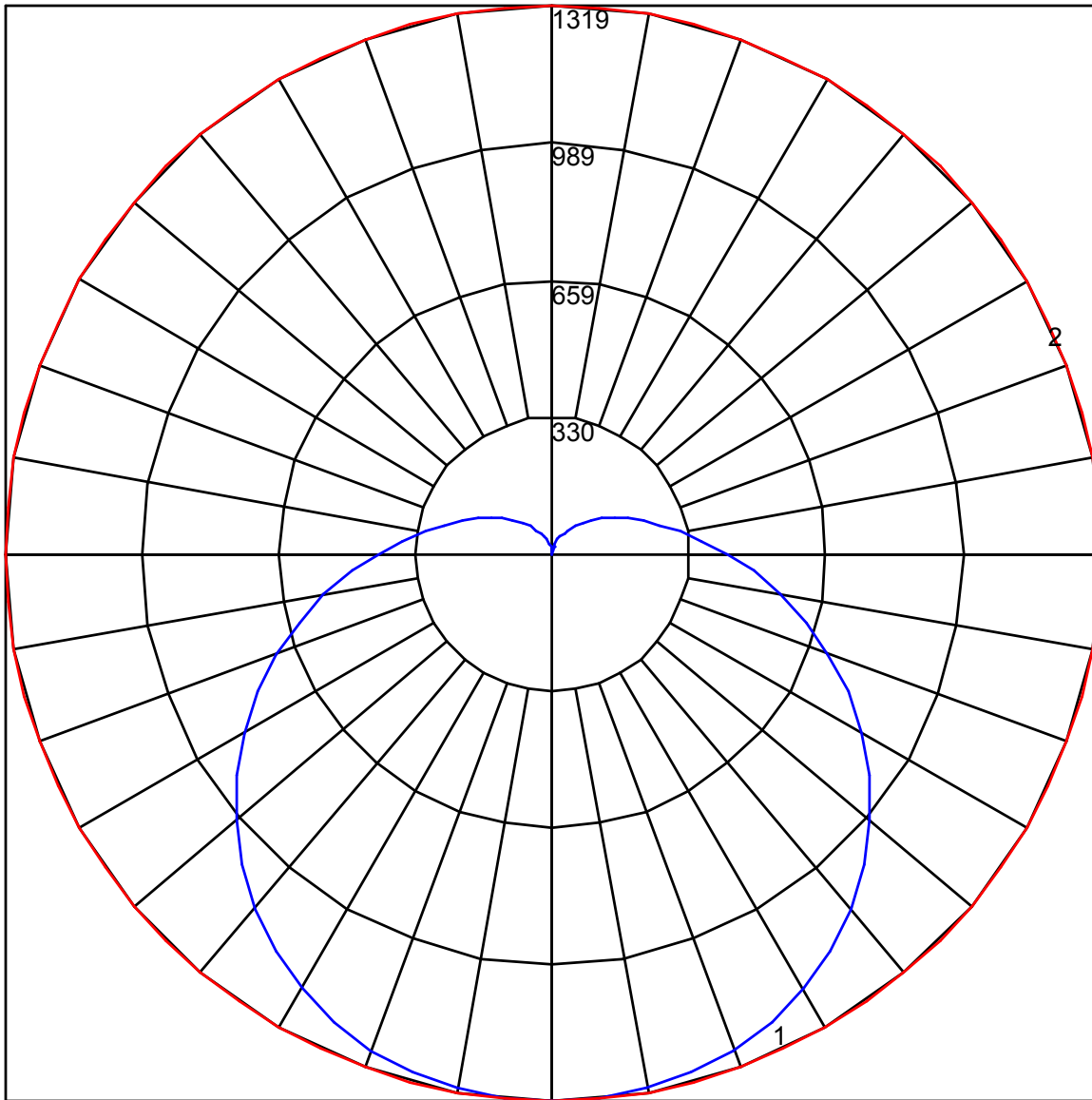
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	97	97	97	90	90	90	87
1	103	97	92	88	99	94	89	85	87	83	80	81	78	75	75	73	71	67
2	93	84	76	70	89	81	74	68	75	69	64	70	65	61	65	61	57	54
3	84	73	64	57	81	70	62	56	65	59	53	61	55	50	57	52	48	45
4	77	64	55	48	74	62	53	47	58	50	45	54	48	43	50	45	41	38
5	71	57	48	41	67	55	46	40	51	44	38	48	42	37	45	39	35	32
6	65	51	42	35	62	50	41	35	46	39	33	43	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	39	33	28	37	31	27	25
8	56	42	33	27	54	41	33	27	38	31	26	36	30	25	34	28	24	22
9	52	39	30	25	50	37	30	24	35	28	23	33	27	23	31	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1318.688 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.)