



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HSS-LED4-SO-04-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021506201
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 2/23/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] HSS-LED4-SO-04-SAL-1
 [LUMINAIRE] 1-3/4"L. X 48-1/4"W. X 3"H. LED LINEAR DIRECT LUMINAIRE
 [MORE] DIFFUSED LENS
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9114	9304	12220
55	8360	8286	11032
65	7646	7325	9797
75	6949	6419	8274
85	6212	5549	5580

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601
5	749.550	749.550	749.312	748.928	748.305	747.445	746.677	745.505	744.261	743.017
10	756.851	756.851	756.138	755.369	754.198	752.642	750.941	748.690	746.292	743.877
15	756.376	755.991	755.296	753.978	752.039	749.696	746.915	743.639	739.832	735.880
20	748.616	748.232	747.061	745.268	742.706	739.302	735.569	730.994	725.796	720.361
25	735.422	734.800	733.244	730.829	727.425	722.996	718.092	712.053	705.282	698.383
30	717.872	716.939	715.073	711.815	707.698	702.189	695.821	688.281	679.827	671.281
35	696.754	695.967	693.332	689.453	684.164	677.576	669.506	660.410	653.273	643.959
40	673.147	672.068	669.194	664.455	658.086	649.778	640.390	630.527	618.650	605.529
45	647.216	645.972	642.641	637.115	629.904	620.187	609.170	597.294	583.001	568.252
50	619.418	618.174	614.148	607.853	599.160	587.906	575.480	561.883	545.578	529.273
55	588.510	587.046	582.617	575.480	565.616	553.575	539.447	524.460	506.288	487.896
60	554.508	552.880	547.994	540.143	529.675	516.389	501.475	485.096	465.461	445.660
65	517.085	515.456	510.405	502.097	491.007	477.026	460.959	444.031	423.151	402.106
70	477.026	475.324	470.036	461.581	449.851	435.650	419.033	400.862	379.743	358.387
75	436.492	434.790	429.355	420.973	409.408	394.969	378.115	359.083	338.587	316.078
80	392.389	390.760	385.563	377.255	365.927	351.635	335.018	316.078	295.508	273.768
85	348.450	346.748	341.936	334.012	323.068	309.160	293.331	275.012	254.809	233.545
90	309.325	307.769	303.030	295.820	285.480	272.450	257.225	239.748	220.497	200.001
95	288.518	287.200	283.010	276.330	266.924	255.120	241.084	224.925	207.065	188.051
100	270.200	268.955	265.076	258.854	250.545	239.529	226.938	212.280	195.737	178.187
105	252.485	251.241	247.910	242.237	234.789	224.687	213.195	199.616	184.556	168.323
110	234.935	233.929	230.745	225.694	218.941	209.627	199.232	186.880	172.898	157.929
115	217.550	216.690	213.909	209.315	203.112	194.804	185.251	173.923	161.186	147.443
120	200.477	199.763	197.201	193.175	187.502	179.889	171.197	160.875	149.310	136.573
125	183.860	183.073	180.749	177.107	171.819	164.993	157.069	147.827	137.195	125.703
130	167.079	166.457	164.371	161.022	156.209	150.152	142.941	134.560	125.007	114.137
135	150.627	149.932	147.901	144.881	140.690	135.329	128.960	121.128	110.404	98.985
140	133.700	133.224	131.449	128.814	124.934	120.194	113.661	103.724	94.172	84.473
145	116.772	116.315	114.833	112.417	109.013	103.194	94.648	86.797	78.891	71.352
150	99.223	98.765	97.521	95.343	90.988	83.540	77.263	71.279	65.917	61.104
155	81.838	81.673	80.593	78.178	71.279	66.081	61.488	58.395	55.211	51.240
160	64.745	64.361	63.519	57.993	53.802	50.471	49.062	47.214	44.103	39.125
165	47.525	47.287	43.243	39.839	37.588	36.875	35.557	33.617	30.982	28.804
170	29.811	27.725	24.540	23.369	24.156	24.229	23.534	22.674	21.503	20.185
175	14.915	12.426	12.353	13.048	13.505	13.505	13.286	12.883	12.426	11.877
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	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601	740.601
5	741.626	739.997	738.917	737.508	736.575	735.953	735.331	735.020	734.946	
10	740.693	737.673	734.489	730.994	727.425	724.241	721.679	720.508	719.885	
15	731.524	726.711	721.752	716.628	711.431	705.996	700.707	697.450	696.590	
20	714.304	707.936	701.329	694.339	687.037	679.900	672.525	666.706	664.912	
25	690.386	682.389	674.007	666.010	659.020	652.029	644.105	636.035	633.235	
30	664.070	657.299	644.727	631.606	619.894	608.859	597.843	587.503	582.782	
35	628.806	616.307	603.809	591.163	578.426	565.616	552.953	540.692	534.488	
40	591.474	577.493	562.981	548.067	533.628	519.116	504.586	491.154	482.919	
45	552.184	536.501	519.720	502.884	486.579	470.731	455.908	442.018	432.466	
50	511.430	493.405	476.020	460.574	439.054	420.278	402.966	386.734	375.315	
55	468.718	448.991	429.044	408.383	388.601	369.257	350.701	333.243	321.275	
60	424.926	403.661	382.141	359.870	340.691	322.757	300.632	281.454	268.168	

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CANDELA TABULATION - (Cont.)

65	380.128	357.692	335.256	312.033	290.293	268.955	248.368	229.738	215.226
70	335.494	312.656	289.140	264.764	241.926	219.179	198.061	178.809	163.511
75	293.020	269.175	244.964	219.966	196.505	173.136	151.323	132.144	117.083
80	250.234	226.316	201.941	176.796	153.189	129.893	107.769	87.968	71.736
85	210.413	186.806	162.504	137.506	113.899	90.841	68.790	48.751	32.922
90	177.638	154.580	130.900	106.451	83.228	60.408	38.430	18.629	2.489
95	167.079	145.650	123.452	100.321	78.416	56.840	36.106	17.239	2.178
100	158.771	138.659	117.852	96.038	75.158	54.589	34.788	16.616	0.000
105	150.152	131.376	111.886	91.299	71.663	52.247	33.233	15.226	0.000
110	141.075	123.763	105.280	86.413	68.021	49.776	31.055	14.054	0.000
115	132.071	116.004	98.765	81.215	64.123	46.427	29.353	13.048	0.000
120	122.281	107.696	92.012	75.927	59.621	43.481	27.633	11.639	0.000
125	112.893	99.296	84.546	68.790	53.729	39.217	24.302	10.248	0.000
130	101.089	87.895	74.152	60.170	47.434	34.788	20.496	9.388	0.000
135	87.657	76.018	64.361	52.796	41.779	30.195	17.788	8.546	0.000
140	74.774	65.294	56.053	45.805	36.252	24.925	15.610	7.997	0.000
145	64.361	57.297	47.836	39.217	29.884	21.356	14.054	7.540	0.000
150	55.595	48.367	40.754	32.373	25.071	18.794	12.883	7.540	0.000
155	45.494	38.979	32.922	27.102	21.814	16.854	11.566	7.613	0.000
160	34.788	30.744	26.553	22.509	18.721	14.677	10.413	7.686	0.000
165	26.315	23.680	20.972	18.245	15.372	12.115	9.626	7.851	0.000
170	18.721	17.165	15.445	13.597	11.566	9.864	8.546	7.613	0.000
175	11.255	10.559	9.864	9.242	8.693	8.162	7.759	7.448	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	277.40	N.A.	7.90
0-30	596.74	N.A.	16.90
0-40	992.08	N.A.	28.20
0-60	1849.66	N.A.	52.50
0-80	2555.2	N.A.	72.50
0-90	2794.69	N.A.	79.30
10-90	2723.88	N.A.	77.30
20-40	714.68	N.A.	20.30
20-50	1145.59	N.A.	32.50
40-70	1243.88	N.A.	35.30
60-80	705.54	N.A.	20.00
70-80	319.24	N.A.	9.10
80-90	239.49	N.A.	6.80
90-110	350.05	N.A.	9.90
90-120	482.21	N.A.	13.70
90-130	583.42	N.A.	16.60
90-150	696.93	N.A.	19.80
90-180	728.17	N.A.	20.70
110-180	378.12	N.A.	10.70
0-180	3522.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.81
10-20	206.59
20-30	319.34
30-40	395.34
40-50	430.91
50-60	426.67
60-70	386.30
70-80	319.24
80-90	239.49
90-100	188.42
100-110	161.63
110-120	132.17
120-130	101.21
130-140	70.40
140-150	43.10
150-160	22.05
160-170	8.02
170-180	1.17

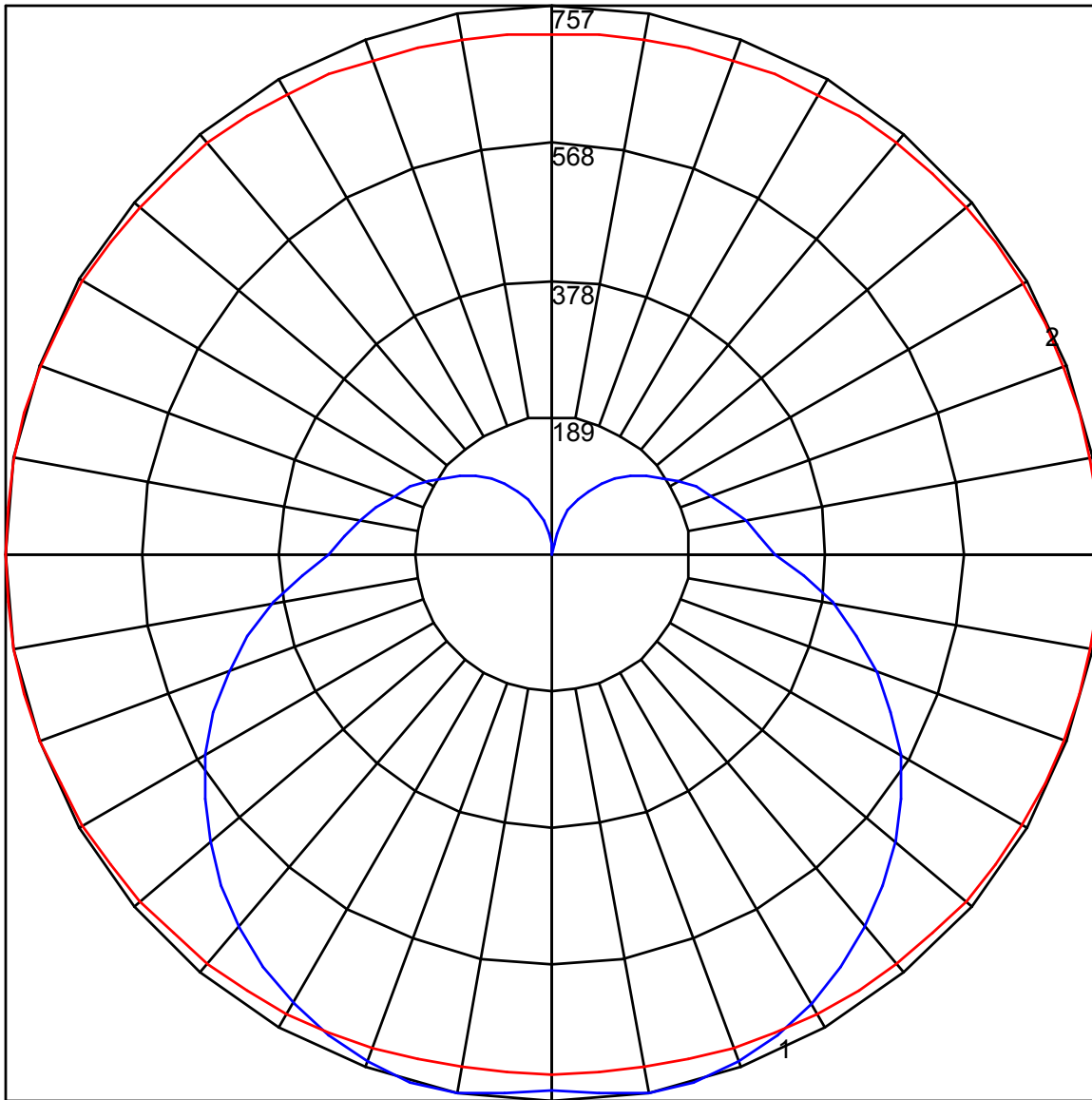
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79
1	101	95	90	86	96	91	86	82	83	79	76	76	73	70	69	66	64	61
2	91	82	74	68	86	78	71	65	71	65	60	65	60	56	59	55	52	48
3	82	71	62	55	78	68	60	53	62	55	50	56	51	46	51	47	43	40
4	75	62	53	46	71	60	51	44	54	47	42	50	44	39	45	40	36	33
5	69	55	46	39	65	53	44	38	48	41	35	44	38	33	40	35	31	28
6	63	50	40	34	60	47	39	33	44	36	31	40	34	29	36	31	27	24
7	59	45	36	29	56	43	34	29	39	32	27	36	30	25	33	28	24	21
8	54	41	32	26	52	39	31	25	36	29	24	33	27	23	30	25	21	19
9	51	37	29	23	48	36	28	23	33	26	21	30	24	20	28	23	19	17
10	47	34	26	21	45	33	25	20	30	24	19	28	22	18	26	21	17	15

POLAR GRAPH



Maximum Candela = 756.851 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)