



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A9-LED35-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P59-A9-LED35-HO
 [TESTLAB] Intertek
 [ISSUE DATE] 2/12/2016
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	2.20
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.75 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1792	2409	2568
55	1631	2261	2485
65	1385	2133	2405
75	993	2020	2336
85	307	1922	2324

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488	611.488
2.5	617.285	630.517	636.439	644.168	643.942	641.569	631.546	620.528	616.743	607.115
5.0	615.850	644.224	663.163	680.147	682.599	677.028	657.829	633.455	614.245	592.538
7.5	612.980	656.858	688.532	714.748	720.883	711.640	682.633	644.959	609.748	570.187
10.0	608.008	667.186	713.109	748.738	758.049	745.506	706.871	654.699	603.974	543.406
12.5	601.883	675.876	736.082	782.096	794.898	778.875	729.833	663.412	597.002	515.687
15.0	594.391	683.311	757.631	815.363	832.358	811.148	751.235	670.971	588.707	488.160
17.5	586.018	689.311	778.446	849.082	869.535	843.262	771.632	677.424	579.351	460.362
20.0	576.379	694.159	798.153	881.468	905.322	874.394	791.215	682.475	569.124	432.361
22.5	566.164	698.035	816.696	911.560	938.589	903.876	810.165	686.430	557.768	404.201
25.0	554.163	700.442	834.109	938.250	969.495	931.233	827.748	688.984	545.281	376.335
27.5	540.468	701.775	849.568	962.737	998.208	955.957	843.488	690.554	531.688	348.808
30.0	525.586	701.696	863.286	985.066	1024.458	978.297	857.478	690.475	516.998	321.508
32.5	510.376	700.453	875.614	1004.965	1038.583	997.937	869.603	689.526	501.302	294.467
35.0	494.669	698.057	885.231	1010.220	1037.589	1003.146	879.298	687.017	484.826	268.047
37.5	478.193	694.532	893.321	1005.271	1034.119	997.044	885.920	683.469	467.481	242.215
40.0	460.430	689.639	897.808	997.643	1028.707	988.999	889.830	678.723	448.926	217.084
42.5	440.779	683.017	890.259	988.445	1021.588	979.495	881.502	672.576	429.377	192.665
45.0	419.806	674.678	874.134	977.111	1012.955	968.320	865.422	664.948	408.631	169.251
47.5	397.963	664.440	855.941	964.647	1003.756	956.251	847.579	655.649	387.127	146.900
50.0	376.200	652.304	836.584	951.132	992.626	942.996	828.493	644.586	364.866	125.735
52.5	354.063	638.337	816.425	936.205	979.992	928.306	808.142	631.376	341.836	105.700
55.0	330.762	622.076	795.497	920.758	965.415	911.707	787.068	615.364	317.948	86.987
57.5	305.744	603.397	773.406	903.458	949.211	894.090	764.908	596.787	293.224	69.913
60.0	279.844	575.803	750.625	884.632	931.470	875.693	741.540	568.288	267.889	54.681
62.5	254.295	543.564	727.743	864.235	912.475	855.726	718.104	536.241	241.967	41.177
65.0	228.961	510.568	704.476	842.844	891.717	834.878	694.566	502.884	215.954	29.708
67.5	203.140	477.357	680.136	819.917	869.580	812.752	670.700	468.713	189.682	20.374
70.0	176.043	444.033	654.891	795.735	846.777	789.508	645.942	435.106	163.364	15.718
72.5	148.561	410.145	629.229	771.338	822.855	765.575	620.958	401.376	137.103	13.989
75.0	121.859	378.968	602.957	746.241	798.187	741.009	595.307	369.499	111.113	12.385
77.5	96.095	350.876	575.938	721.392	773.734	715.934	568.966	341.870	85.202	10.916
80.0	70.105	324.061	548.999	696.543	749.597	691.571	542.423	315.168	59.743	9.616
82.5	45.595	298.083	522.071	671.751	725.923	666.847	516.579	289.890	36.375	8.418
85.0	23.459	271.505	495.268	647.456	702.397	642.857	490.363	264.352	18.713	7.277
87.5	12.068	244.577	467.843	623.025	678.780	618.392	463.673	238.238	10.181	6.136
90.0	5.311	217.107	439.412	597.261	653.999	592.572	435.558	211.672	5.187	5.277
92.5	4.373	194.902	417.569	578.232	636.145	572.989	413.365	189.614	5.232	5.345
95.0	4.430	171.568	399.387	567.520	626.449	563.169	397.138	167.726	5.277	5.673
97.5	4.497	140.063	368.922	532.151	591.510	528.716	367.058	138.877	5.322	5.627
100.0	4.554	86.309	332.559	498.838	559.689	495.392	331.576	84.366	5.334	5.729
102.5	4.610	39.900	289.574	456.814	517.212	454.328	289.314	72.162	5.345	5.763
105.0	4.689	31.312	222.734	408.732	472.272	409.207	222.305	26.205	5.345	5.752
107.5	4.769	25.481	131.159	341.938	414.326	345.780	130.368	20.024	5.345	5.706
110.0	4.848	20.758	334.932	246.735	330.977	253.787	534.038	15.300	5.322	5.593
112.5	4.938	17.153	44.917	144.956	220.169	149.623	41.550	12.633	5.300	5.503
115.0	5.017	15.266	37.109	550.355	157.963	622.540	34.069	9.921	5.300	5.469
117.5	5.119	13.718	31.165	49.189	801.520	46.454	26.826	6.192	5.288	5.424
120.0	5.221	12.498	24.645	39.595	42.205	37.572	21.267	4.475	5.300	5.435
122.5	5.322	11.503	20.182	31.911	33.301	30.487	15.741	2.610	5.311	5.413
125.0	5.458	10.690	14.713	25.640	26.442	23.956	9.831	0.723	5.322	5.424
127.5	5.560	10.012	12.690	19.492	19.764	17.594	4.972	1.051	5.345	5.413
130.0	5.684	9.458	10.791	13.650	13.707	11.989	3.367	0.746	5.367	5.401
132.5	5.786	8.983	10.701	8.983	8.588	6.701	1.729	0.960	5.390	5.435

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P59-A9-LED35-HO.IES

CANDELA TABULATION - (Cont.)

135.0	5.899	8.588	9.379	6.916	3.413	4.689	0.859	0.994	5.447	5.435
137.5	6.012	8.260	8.272	6.497	1.367	4.237	0.927	1.209	5.480	5.447
140.0	6.102	7.966	8.159	5.571	1.401	3.413	0.316	1.898	5.526	5.469
142.5	6.181	7.718	7.537	4.836	1.243	2.949	0.667	2.226	5.616	5.560
145.0	6.271	7.492	6.814	5.413	1.356	2.045	0.723	2.226	5.695	5.616
147.5	6.351	7.300	6.610	3.695	0.904	2.079	0.757	2.237	5.763	5.661
150.0	6.418	7.108	6.848	4.181	0.554	1.446	0.633	2.192	5.831	5.706
152.5	6.486	6.938	6.125	3.367	1.559	0.599	1.379	1.955	5.899	5.763
155.0	6.486	6.780	5.752	3.526	1.209	0.599	1.989	1.989	5.978	5.808
157.5	6.520	6.633	5.910	2.983	0.927	1.232	1.605	2.045	6.057	5.853
160.0	6.565	6.531	5.288	2.802	2.249	0.927	1.989	1.582	6.102	5.910
162.5	6.588	6.430	5.650	3.458	1.695	0.723	1.435	1.288	6.181	5.932
165.0	6.622	6.351	4.927	3.232	0.791	0.701	1.571	1.107	6.226	5.966
167.5	6.633	6.283	4.836	3.209	1.040	1.164	1.412	1.548	6.294	5.989
170.0	6.633	6.238	5.605	3.379	1.638	1.130	1.266	1.480	6.362	6.012
172.5	6.622	6.158	5.254	2.644	1.379	1.605	1.220	1.650	6.430	6.057
175.0	6.633	6.158	5.085	3.096	1.333	1.684	1.311	1.322	6.475	6.091
177.5	6.610	6.113	4.746	3.119	1.514	1.898	1.514	1.435	6.520	6.102
180.0	3.345	3.345	3.345	3.345	3.345	3.345	3.345	3.345	3.345	3.345

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	611.488	611.488	611.488	611.488	611.488	611.488	611.488
2.5	589.713	578.684	571.441	576.910	585.216	598.459	617.285
5.0	552.242	526.648	514.466	525.043	546.185	583.170	615.850
7.5	510.613	475.086	459.684	473.606	505.517	561.135	612.980
10.0	469.052	425.151	408.043	423.931	464.780	535.145	608.008
12.5	428.620	377.691	359.611	376.482	424.112	508.059	601.883
15.0	389.534	333.632	314.434	332.480	385.341	480.499	594.391
17.5	352.662	293.484	272.929	292.161	348.526	453.186	586.018
20.0	317.180	255.527	234.746	254.815	313.812	426.270	576.379
22.5	282.952	220.429	199.592	220.135	280.432	398.913	566.164
25.0	250.916	187.862	167.556	187.919	248.781	371.691	554.163
27.5	221.017	158.030	137.905	157.997	218.960	344.379	540.468
30.0	192.755	130.504	111.135	130.617	190.936	317.010	525.586
32.5	166.166	105.689	86.671	105.870	165.285	290.263	510.376
35.0	141.182	83.450	65.472	83.349	140.730	264.205	494.669
37.5	118.390	63.382	45.867	62.783	117.825	238.995	478.193
40.0	97.349	45.754	28.261	45.087	96.728	214.135	460.430
42.5	77.755	29.064	14.261	28.126	77.303	189.750	440.779
45.0	60.963	15.492	2.723	14.690	59.630	166.607	419.806
47.5	44.330	6.859	2.079	5.944	43.923	144.606	397.963
50.0	31.324	5.853	1.876	5.334	30.329	123.780	376.200
52.5	19.617	5.198	1.605	4.588	17.865	103.474	354.063
55.0	10.995	5.266	1.333	4.441	9.661	85.055	330.762
57.5	10.724	5.876	1.898	4.011	9.198	67.608	305.744
60.0	9.854	5.141	2.305	4.271	8.396	52.556	279.844
62.5	9.944	5.390	3.220	4.362	8.159	37.934	254.295
65.0	9.413	4.576	2.057	4.441	7.243	27.289	228.961
67.5	8.633	5.740	2.554	3.842	6.577	17.639	203.140
70.0	8.780	4.904	3.469	4.362	6.000	12.498	176.043
72.5	7.119	4.791	2.350	3.989	5.379	11.187	148.561
75.0	7.401	5.311	3.650	3.763	4.802	9.209	121.859
77.5	6.961	5.277	3.006	3.526	4.305	7.142	96.095
80.0	5.989	4.735	3.831	3.740	4.260	6.305	70.105

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P59-A9-LED35-HO.IES

CANDELA TABULATION - (Cont.)

82.5	6.430	4.802	4.181	4.610	3.639	4.972	45.595
85.0	5.955	5.288	4.023	3.695	3.209	3.740	23.459
87.5	5.119	3.695	3.333	3.040	2.554	2.136	12.068
90.0	5.593	3.910	2.983	2.588	2.203	2.068	5.311
92.5	5.413	3.661	2.622	2.610	2.362	1.446	4.373
95.0	6.215	5.209	4.181	3.752	2.644	2.283	4.430
97.5	5.492	4.204	3.413	3.458	2.396	1.096	4.497
100.0	6.102	4.328	3.559	3.752	2.576	1.254	4.554
102.5	4.927	4.158	2.983	2.983	2.452	1.966	4.610
105.0	5.706	4.350	3.593	2.938	2.610	1.559	4.689
107.5	5.051	3.695	3.503	2.870	2.181	2.328	4.769
110.0	4.599	3.650	2.316	2.305	2.339	0.960	4.848
112.5	4.836	4.181	1.921	2.305	1.571	1.322	4.938
115.0	4.531	3.266	2.328	2.328	1.672	1.220	5.017
117.5	4.791	2.972	2.825	1.989	2.893	1.186	5.119
120.0	5.017	3.322	2.226	2.215	2.124	1.379	5.221
122.5	5.526	4.102	2.870	2.644	2.226	0.938	5.322
125.0	5.085	3.187	1.898	2.249	1.638	1.582	5.458
127.5	4.882	3.921	3.311	2.283	2.170	1.977	5.560
130.0	4.859	3.153	2.237	1.898	1.345	1.356	5.684
132.5	4.328	3.785	1.887	1.288	2.170	1.458	5.786
135.0	4.802	3.672	2.373	2.045	1.944	0.994	5.899
137.5	4.656	3.164	2.441	1.831	1.356	1.480	6.012
140.0	4.656	2.791	1.910	1.480	1.638	1.311	6.102
142.5	5.028	3.684	2.170	1.379	1.808	1.537	6.181
145.0	4.599	3.266	1.718	2.102	2.000	1.480	6.271
147.5	4.610	3.198	1.831	1.864	1.842	1.537	6.351
150.0	4.859	3.752	2.023	2.418	1.311	1.412	6.418
152.5	4.622	3.718	2.158	1.435	2.023	1.853	6.486
155.0	4.543	4.656	1.548	2.023	1.209	1.379	6.486
157.5	5.187	3.119	2.045	2.124	1.932	1.661	6.520
160.0	5.311	3.639	1.921	1.808	1.661	1.424	6.565
162.5	5.435	2.994	2.373	2.034	2.339	1.503	6.588
165.0	4.373	3.661	1.808	1.684	2.350	1.593	6.622
167.5	5.322	3.932	1.887	1.819	1.446	1.492	6.633
170.0	4.882	3.865	1.638	1.785	1.525	2.124	6.633
172.5	4.961	3.458	1.763	1.853	1.469	1.503	6.622
175.0	5.447	3.514	1.503	2.011	1.672	1.345	6.633
177.5	5.288	2.859	1.763	1.808	1.910	2.057	6.610
180.0	3.345	3.345	3.345	3.345	3.345	3.345	3.345

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.63	N.A.	7.90
0-30	474.17	N.A.	16.90
0-40	795.95	N.A.	28.40
0-60	1514.01	N.A.	54.10
0-80	2153.8	N.A.	76.90
0-90	2399.09	N.A.	85.70
10-90	2341.64	N.A.	83.60
20-40	575.32	N.A.	20.50
20-50	931.06	N.A.	33.20
40-70	1059.54	N.A.	37.80
60-80	639.79	N.A.	22.80
70-80	298.31	N.A.	10.70
80-90	245.29	N.A.	8.80
90-110	320.32	N.A.	11.40
90-120	384.49	N.A.	13.70
90-130	392.95	N.A.	14.00
90-150	398.72	N.A.	14.20
90-180	401.64	N.A.	14.30
110-180	81.32	N.A.	2.90
0-180	2800.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.45
10-20	163.18
20-30	253.53
30-40	321.78
40-50	355.74
50-60	362.31
60-70	341.49
70-80	298.31
80-90	245.29
90-100	195.70
100-110	124.62
110-120	64.17
120-130	8.46
130-140	3.48
140-150	2.29
150-160	1.62
160-170	0.97
170-180	0.33

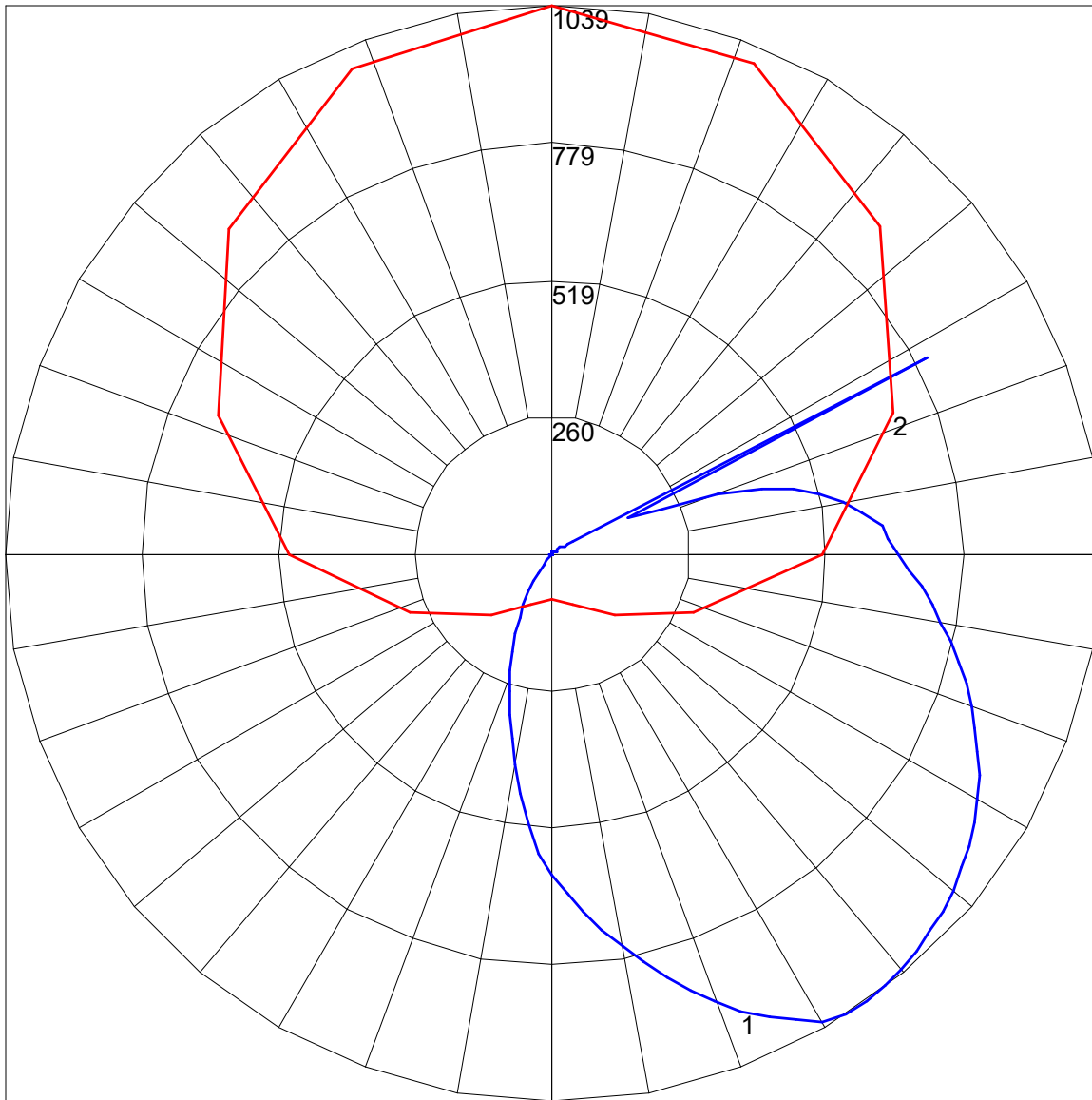
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P59-A9-LED35-HO.IES

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	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	102	95	90	85	97	92	87	82	85	80	77	78	75	72	72	70	67	64
2	91	81	73	66	87	78	71	64	72	66	61	66	61	57	61	57	54	50
3	82	70	61	53	78	67	59	52	62	55	49	58	52	47	53	48	44	41
4	75	62	52	44	71	59	50	43	55	47	41	51	44	39	47	41	37	34
5	69	55	45	38	65	53	43	37	49	41	35	45	38	33	42	36	32	29
6	63	49	39	32	60	47	38	32	44	36	30	41	34	29	38	32	27	25
7	58	44	35	28	56	42	34	28	40	32	26	37	30	25	34	29	24	22
8	54	40	31	25	52	39	30	24	36	29	23	34	27	22	31	26	21	19
9	50	37	28	22	48	35	27	22	33	26	21	31	25	20	29	23	19	17
10	47	34	25	20	45	33	25	20	31	24	19	29	22	18	27	21	17	15

POLAR GRAPH



Maximum Candela = 1038.583 Located At Horizontal Angle = 90, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)