



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4018-LED35-HO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P4018-LED35-HO-FWA -D9
 [TESTLAB] Intertek
 [ISSUE DATE] November 22, 2017
 [MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	58
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.42 ft (Diameter)
Luminous Width (90-270)	1.42 ft (Diameter)
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4536	4543	4546
55	3848	3854	3855
65	3047	3056	3062
75	2071	2101	2167
85	773	1005	1227

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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	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806
2.5	1037.756	1037.659	1037.927	1038.000	1038.464	1038.000	1037.927	1037.659	1037.756	1037.659
5.0	1033.901	1034.267	1034.536	1034.633	1034.731	1034.633	1034.536	1034.267	1033.901	1034.267
7.5	1028.094	1027.996	1028.387	1029.753	1030.680	1029.753	1028.387	1027.996	1028.094	1027.996
10.0	1018.968	1019.139	1019.725	1019.896	1021.360	1019.896	1019.725	1019.139	1018.968	1019.139
12.5	1007.793	1008.550	1010.721	1008.916	1009.086	1008.916	1010.721	1008.550	1007.793	1008.550
15.0	994.398	994.666	995.764	996.179	995.886	996.179	995.764	994.666	994.398	994.666
17.5	979.001	979.270	980.197	980.319	980.563	980.319	980.197	979.270	979.001	979.270
20.0	961.580	961.897	962.848	963.044	962.922	963.044	962.848	961.897	961.580	961.897
22.5	942.255	944.646	943.475	943.231	944.475	943.231	943.475	944.646	942.255	944.646
25.0	920.002	920.490	921.466	921.149	922.052	921.149	921.466	920.490	920.002	920.490
27.5	895.919	896.993	896.993	896.944	896.968	896.944	896.993	896.993	895.919	896.993
30.0	869.762	869.958	872.202	870.787	870.397	870.787	872.202	869.958	869.762	869.958
32.5	842.190	842.630	842.874	843.118	842.849	843.118	842.874	842.630	842.190	842.630
35.0	813.252	813.130	813.935	813.984	814.326	813.984	813.935	813.130	813.252	813.130
37.5	782.776	783.630	783.167	783.533	784.655	783.533	783.167	783.630	782.776	783.630
40.0	750.129	750.617	751.178	751.593	753.057	751.593	751.178	750.617	750.129	750.617
42.5	716.628	716.726	717.482	717.921	718.800	717.921	717.482	716.726	716.628	716.726
45.0	681.468	681.614	682.395	682.712	682.858	682.712	682.395	681.614	681.468	681.614
47.5	644.990	645.478	646.210	646.405	647.064	646.405	646.210	645.478	644.990	645.478
50.0	607.828	608.658	609.073	609.439	610.512	609.439	609.073	608.658	607.828	608.658
52.5	569.960	570.643	570.814	571.448	572.156	571.448	570.814	570.643	569.960	570.643
55.0	531.139	531.578	531.969	532.310	532.140	532.310	531.969	531.578	531.139	531.578
57.5	491.196	491.806	492.294	492.392	491.855	492.392	492.294	491.806	491.196	491.806
60.0	450.985	451.522	452.352	452.303	452.352	452.303	452.352	451.522	450.985	451.522
62.5	410.774	411.384	412.043	412.214	412.750	412.214	412.043	411.384	410.774	411.384
65.0	370.685	371.319	371.685	372.246	372.515	372.246	371.685	371.319	370.685	371.319
67.5	330.303	330.962	331.352	332.328	331.816	332.328	331.352	330.962	330.303	330.962
70.0	289.677	290.531	291.458	292.824	292.629	292.824	291.458	290.531	289.677	290.531
72.5	249.661	250.564	252.003	254.370	255.444	254.370	252.003	250.564	249.661	250.564
75.0	210.377	211.304	213.427	217.404	220.088	217.404	213.427	211.304	210.377	211.304
77.5	171.947	172.947	176.388	182.829	186.026	182.829	176.388	172.947	171.947	172.947
80.0	133.932	135.615	142.301	151.939	154.623	151.939	142.301	135.615	133.932	135.615
82.5	96.673	99.967	110.898	121.634	126.197	121.634	110.898	99.967	96.673	99.967
85.0	60.585	64.928	78.788	93.086	96.209	93.086	78.788	64.928	60.585	64.928
87.5	26.059	34.087	53.363	77.348	88.718	77.348	53.363	34.087	26.059	34.087
90.0	12.737	13.396	18.520	24.961	27.816	24.961	18.520	13.396	12.737	13.396
92.5	32.794	33.599	44.652	58.145	63.904	58.145	44.652	33.599	32.794	33.599
95.0	41.529	42.968	53.948	67.393	73.371	67.393	53.948	42.968	41.529	42.968
97.5	51.191	53.753	64.416	77.494	83.424	77.494	64.416	53.753	51.191	53.753
100.0	61.903	65.490	75.835	88.352	94.184	88.352	75.835	65.490	61.903	65.490
102.5	73.664	77.909	88.182	99.918	105.579	99.918	88.182	77.909	73.664	77.909
105.0	86.327	91.085	101.187	112.191	117.706	112.191	101.187	91.085	86.327	91.085
107.5	99.772	104.847	114.778	125.148	130.418	125.148	114.778	104.847	99.772	104.847
110.0	113.899	119.072	128.832	138.665	143.692	138.665	128.832	119.072	113.899	119.072
112.5	128.612	135.664	143.399	152.720	157.453	152.720	143.399	135.664	128.612	135.664
115.0	143.984	149.108	158.502	167.408	171.752	167.408	158.502	149.108	143.984	149.108
117.5	159.991	165.164	174.167	182.683	186.660	182.683	174.167	165.164	159.991	165.164
120.0	176.217	181.341	189.930	198.201	201.837	198.201	189.930	181.341	176.217	181.341
122.5	192.492	197.469	205.814	213.817	217.502	213.817	205.814	197.469	192.492	197.469
125.0	208.864	213.671	221.918	229.702	233.337	229.702	221.918	213.671	208.864	213.671
127.5	225.285	230.751	238.925	245.806	249.246	245.806	238.925	230.751	225.285	230.751
130.0	241.902	250.344	255.175	261.934	265.301	261.934	255.175	250.344	241.902	250.344
132.5	258.567	263.374	270.889	277.916	281.332	277.916	270.889	263.374	258.567	263.374

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CANDELA TABULATION - (Cont.)

135.0	274.890	279.575	286.822	293.459	296.850	293.459	286.822	279.575	274.890	279.575
137.5	290.824	296.240	302.389	308.587	311.881	308.587	302.389	296.240	290.824	296.240
140.0	306.537	314.004	317.737	323.593	326.374	323.593	317.737	314.004	306.537	314.004
142.5	323.154	330.474	332.645	338.599	340.575	338.599	332.645	330.474	323.154	330.474
145.0	340.600	342.698	347.188	352.263	354.190	352.263	347.188	342.698	340.600	342.698
147.5	355.947	356.582	362.145	365.048	367.025	365.048	362.145	356.582	355.947	356.582
150.0	365.805	371.929	376.272	377.200	379.176	377.200	376.272	371.929	365.805	371.929
152.5	377.639	382.519	386.716	388.960	390.620	388.960	386.716	382.519	377.639	382.519
155.0	389.863	393.328	397.427	399.818	401.258	399.818	397.427	393.328	389.863	393.328
157.5	401.014	404.332	408.066	409.896	410.969	409.896	408.066	404.332	401.014	404.332
160.0	411.286	414.336	417.557	418.802	419.729	418.802	417.557	414.336	411.286	414.336
162.5	420.290	423.316	426.170	426.878	427.537	426.878	426.170	423.316	420.290	423.316
165.0	428.635	431.270	433.759	434.027	434.637	434.027	433.759	431.270	428.635	431.270
167.5	435.735	438.224	440.420	440.225	440.566	440.225	440.420	438.224	435.735	438.224
170.0	441.567	443.885	445.764	445.276	445.398	445.276	445.764	443.885	441.567	443.885
172.5	446.154	448.399	449.936	449.155	449.106	449.155	449.936	448.399	446.154	448.399
175.0	449.472	451.498	452.913	451.864	451.742	451.864	452.913	451.498	449.472	451.498
177.5	451.327	453.376	454.670	453.596	453.547	453.596	454.670	453.376	451.327	453.376
180.0	454.157	454.157	454.157	454.157	454.157	454.157	454.157	454.157	454.157	454.157

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	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806	1038.806
2.5	1037.927	1038.000	1038.464	1038.000	1037.927	1037.659	1037.756
5.0	1034.536	1034.633	1034.731	1034.633	1034.536	1034.267	1033.901
7.5	1028.387	1029.753	1030.680	1029.753	1028.387	1027.996	1028.094
10.0	1019.725	1019.896	1021.360	1019.896	1019.725	1019.139	1018.968
12.5	1010.721	1008.916	1009.086	1008.916	1010.721	1008.550	1007.793
15.0	995.764	996.179	995.886	996.179	995.764	994.666	994.398
17.5	980.197	980.319	980.563	980.319	980.197	979.270	979.001
20.0	962.848	963.044	962.922	963.044	962.848	961.897	961.580
22.5	943.475	943.231	944.475	943.231	943.475	944.646	942.255
25.0	921.466	921.149	922.052	921.149	921.466	920.490	920.002
27.5	896.993	896.944	896.968	896.944	896.993	896.993	895.919
30.0	872.202	870.787	870.397	870.787	872.202	869.958	869.762
32.5	842.874	843.118	842.849	843.118	842.874	842.630	842.190
35.0	813.935	813.984	814.326	813.984	813.935	813.130	813.252
37.5	783.167	783.533	784.655	783.533	783.167	783.630	782.776
40.0	751.178	751.593	753.057	751.593	751.178	750.617	750.129
42.5	717.482	717.921	718.800	717.921	717.482	716.726	716.628
45.0	682.395	682.712	682.858	682.712	682.395	681.614	681.468
47.5	646.210	646.405	647.064	646.405	646.210	645.478	644.990
50.0	609.073	609.439	610.512	609.439	609.073	608.658	607.828
52.5	570.814	571.448	572.156	571.448	570.814	570.643	569.960
55.0	531.969	532.310	532.140	532.310	531.969	531.578	531.139
57.5	492.294	492.392	491.855	492.392	492.294	491.806	491.196
60.0	452.352	452.303	452.352	452.303	452.352	451.522	450.985
62.5	412.043	412.214	412.750	412.214	412.043	411.384	410.774
65.0	371.685	372.246	372.515	372.246	371.685	371.319	370.685
67.5	331.352	332.328	331.816	332.328	331.352	330.962	330.303
70.0	291.458	292.824	292.629	292.824	291.458	290.531	289.677
72.5	252.003	254.370	255.444	254.370	252.003	250.564	249.661
75.0	213.427	217.404	220.088	217.404	213.427	211.304	210.377
77.5	176.388	182.829	186.026	182.829	176.388	172.947	171.947
80.0	142.301	151.939	154.623	151.939	142.301	135.615	133.932

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CANDELA TABULATION - (Cont.)

82.5	110.898	121.634	126.197	121.634	110.898	99.967	96.673
85.0	78.788	93.086	96.209	93.086	78.788	64.928	60.585
87.5	53.363	77.348	88.718	77.348	53.363	34.087	26.059
90.0	18.520	24.961	27.816	24.961	18.520	13.396	12.737
92.5	44.652	58.145	63.904	58.145	44.652	33.599	32.794
95.0	53.948	67.393	73.371	67.393	53.948	42.968	41.529
97.5	64.416	77.494	83.424	77.494	64.416	53.753	51.191
100.0	75.835	88.352	94.184	88.352	75.835	65.490	61.903
102.5	88.182	99.918	105.579	99.918	88.182	77.909	73.664
105.0	101.187	112.191	117.706	112.191	101.187	91.085	86.327
107.5	114.778	125.148	130.418	125.148	114.778	104.847	99.772
110.0	128.832	138.665	143.692	138.665	128.832	119.072	113.899
112.5	143.399	152.720	157.453	152.720	143.399	135.664	128.612
115.0	158.502	167.408	171.752	167.408	158.502	149.108	143.984
117.5	174.167	182.683	186.660	182.683	174.167	165.164	159.991
120.0	189.930	198.201	201.837	198.201	189.930	181.341	176.217
122.5	205.814	213.817	217.502	213.817	205.814	197.469	192.492
125.0	221.918	229.702	233.337	229.702	221.918	213.671	208.864
127.5	238.925	245.806	249.246	245.806	238.925	230.751	225.285
130.0	255.175	261.934	265.301	261.934	255.175	250.344	241.902
132.5	270.889	277.916	281.332	277.916	270.889	263.374	258.567
135.0	286.822	293.459	296.850	293.459	286.822	279.575	274.890
137.5	302.389	308.587	311.881	308.587	302.389	296.240	290.824
140.0	317.737	323.593	326.374	323.593	317.737	314.004	306.537
142.5	332.645	338.599	340.575	338.599	332.645	330.474	323.154
145.0	347.188	352.263	354.190	352.263	347.188	342.698	340.600
147.5	362.145	365.048	367.025	365.048	362.145	356.582	355.947
150.0	376.272	377.200	379.176	377.200	376.272	371.929	365.805
152.5	386.716	388.960	390.620	388.960	386.716	382.519	377.639
155.0	397.427	399.818	401.258	399.818	397.427	393.328	389.863
157.5	408.066	409.896	410.969	409.896	408.066	404.332	401.014
160.0	417.557	418.802	419.729	418.802	417.557	414.336	411.286
162.5	426.170	426.878	427.537	426.878	426.170	423.316	420.290
165.0	433.759	434.027	434.637	434.027	433.759	431.270	428.635
167.5	440.420	440.225	440.566	440.225	440.420	438.224	435.735
170.0	445.764	445.276	445.398	445.276	445.764	443.885	441.567
172.5	449.936	449.155	449.106	449.155	449.936	448.399	446.154
175.0	452.913	451.864	451.742	451.864	452.913	451.498	449.472
177.5	454.670	453.596	453.547	453.596	454.670	453.376	451.327
180.0	454.157	454.157	454.157	454.157	454.157	454.157	454.157

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	379.20	N.A.	8.80
0-30	803.57	N.A.	18.70
0-40	1312.68	N.A.	30.50
0-60	2314.29	N.A.	53.70
0-80	2909.62	N.A.	67.60
0-90	2998.59	N.A.	69.60
10-90	2900.3	N.A.	67.30
20-40	933.49	N.A.	21.70
20-50	1459.74	N.A.	33.90
40-70	1369.53	N.A.	31.80
60-80	595.33	N.A.	13.80
70-80	227.41	N.A.	5.30
80-90	88.97	N.A.	2.10
90-110	166.52	N.A.	3.90
90-120	323.71	N.A.	7.50
90-130	522.26	N.A.	12.10
90-150	960.77	N.A.	22.30
90-180	1308.48	N.A.	30.40
110-180	1141.97	N.A.	26.50
0-180	4307.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.29
10-20	280.90
20-30	424.37
30-40	509.11
40-50	526.26
50-60	475.36
60-70	367.92
70-80	227.41
80-90	88.97
90-100	58.71
100-110	107.81
110-120	157.19
120-130	198.55
130-140	221.16
140-150	217.34
150-160	182.80
160-170	122.02
170-180	42.89

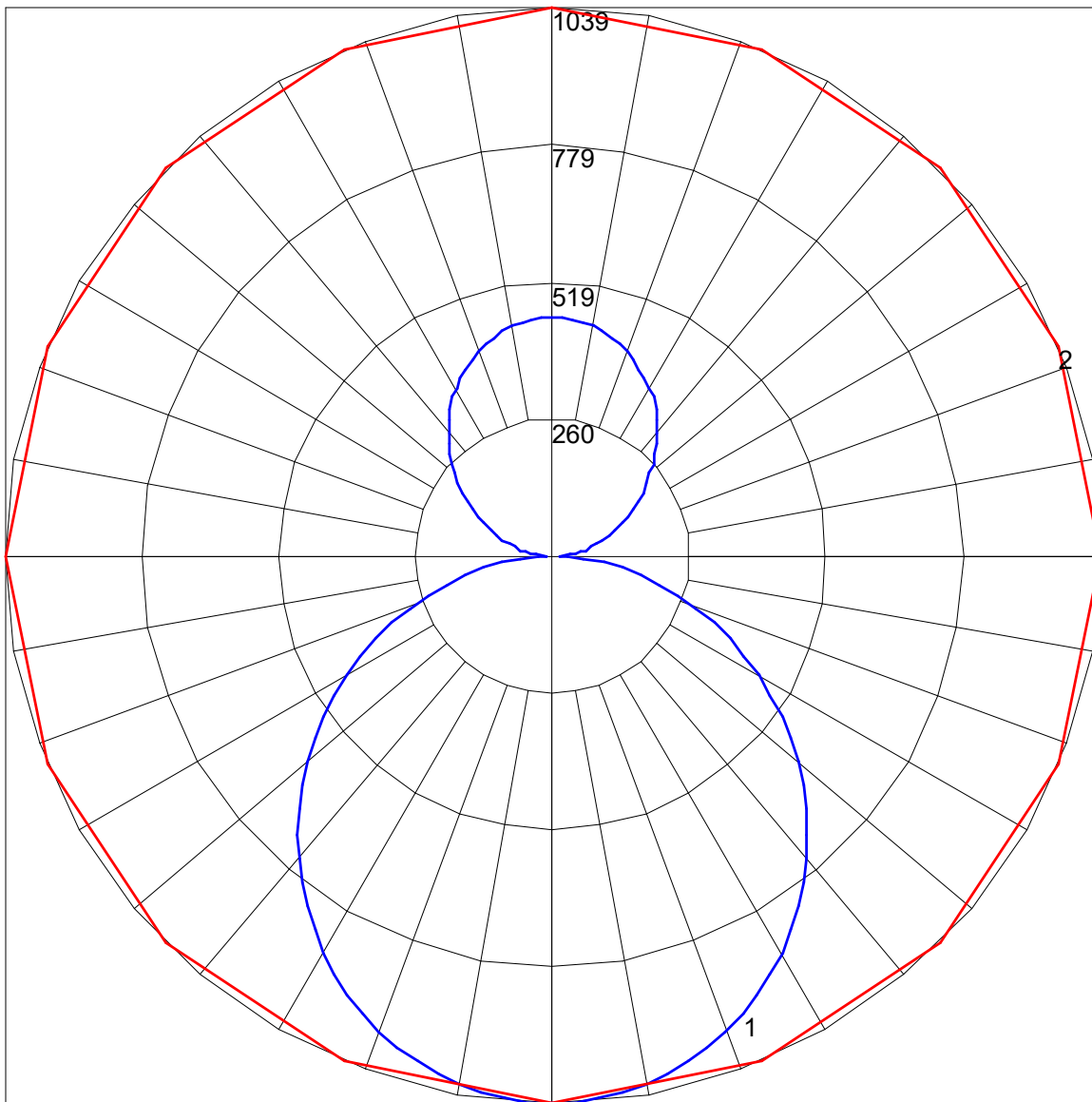
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	97	93	89	96	92	88	85	82	79	76	73	71	69	65	63	62	57
2	92	84	78	72	87	80	74	69	71	67	63	64	60	57	57	54	51	48
3	84	74	66	60	79	70	63	57	63	57	52	56	52	48	50	46	43	40
4	77	65	57	50	72	62	54	48	56	49	45	50	45	41	44	40	37	34
5	71	58	50	43	66	55	47	42	50	43	38	45	39	35	40	36	32	29
6	65	52	44	38	61	50	42	36	45	38	33	40	35	31	36	32	28	26
7	60	47	39	33	57	45	37	32	41	34	30	37	31	27	33	29	25	23
8	56	43	35	29	53	41	33	28	37	31	26	34	28	24	30	26	22	20
9	52	39	31	26	49	37	30	25	34	28	24	31	26	22	28	23	20	18
10	49	36	29	23	46	34	27	23	31	25	21	29	23	20	26	22	18	16

POLAR GRAPH



Maximum Candela = 1038.806 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.)