



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4030-LED35-SO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P4030-LED35-SO-FWA -D9
 [TESTLAB] Intertek
 [ISSUE DATE] November 27, 2017
 [MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11145
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	125
Ballast Factor	1.00
CIE Type	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)	2.96 ft (Diameter)
Luminous Width (90-270)	2.96 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	4287	4278	4275
55	3815	3812	3806
65	3192	3190	3192
75	2314	2327	2314
85	991	996	970

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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	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084
2.5	3570.522	3572.075	3573.234	3573.524	3574.145	3573.524	3573.234	3572.075	3570.522	3572.075
5.0	3557.854	3559.800	3560.648	3561.042	3558.578	3561.042	3560.648	3559.800	3557.854	3559.800
7.5	3536.843	3537.961	3538.851	3539.451	3537.464	3539.451	3538.851	3537.961	3536.843	3537.961
10.0	3507.097	3508.319	3510.016	3509.581	3509.333	3509.581	3510.016	3508.319	3507.097	3508.319
12.5	3471.638	3471.969	3471.224	3470.376	3471.162	3470.376	3471.224	3471.969	3471.638	3471.969
15.0	3424.401	3426.802	3426.843	3426.636	3425.084	3426.636	3426.843	3426.802	3424.401	3426.802
17.5	3373.748	3373.313	3373.851	3373.168	3374.369	3373.168	3373.851	3373.313	3373.748	3373.313
20.0	3311.876	3313.449	3313.801	3312.517	3313.470	3312.517	3313.801	3313.449	3311.876	3313.449
22.5	3244.290	3245.263	3244.373	3243.379	3241.868	3243.379	3244.373	3245.263	3244.290	3245.263
25.0	3169.584	3170.640	3168.984	3167.949	3167.017	3167.949	3168.984	3170.640	3169.584	3170.640
27.5	3088.233	3087.715	3088.316	3086.266	3084.838	3086.266	3088.316	3087.715	3088.233	3087.715
30.0	3000.113	2999.699	2999.823	2999.244	2995.642	2999.244	2999.823	2999.699	3000.113	2999.699
32.5	2906.508	2905.990	2905.224	2903.755	2902.657	2903.755	2905.224	2905.990	2906.508	2905.990
35.0	2810.273	2805.574	2805.181	2802.739	2801.414	2802.739	2805.181	2805.574	2810.273	2805.574
37.5	2702.820	2700.563	2698.121	2697.872	2696.113	2697.872	2698.121	2700.563	2702.820	2700.563
40.0	2588.245	2588.804	2587.148	2585.389	2585.099	2585.389	2587.148	2588.804	2588.245	2588.804
42.5	2473.960	2473.132	2471.042	2469.137	2468.206	2469.137	2471.042	2473.132	2473.960	2473.132
45.0	2354.273	2352.058	2349.616	2348.374	2348.187	2348.374	2349.616	2352.058	2354.273	2352.058
47.5	2229.307	2225.146	2222.932	2221.772	2220.986	2221.772	2222.932	2225.146	2229.307	2225.146
50.0	2099.249	2095.192	2093.805	2093.474	2093.080	2093.474	2093.805	2095.192	2099.249	2095.192
52.5	1964.306	1962.588	1961.967	1959.938	1960.124	1959.938	1961.967	1962.588	1964.306	1962.588
55.0	1828.555	1827.727	1827.023	1823.856	1824.167	1823.856	1827.023	1827.727	1828.555	1827.727
57.5	1688.851	1686.781	1687.236	1685.601	1684.525	1685.601	1687.236	1686.781	1688.851	1686.781
60.0	1548.091	1544.696	1545.131	1543.847	1541.777	1543.847	1545.131	1544.696	1548.091	1544.696
62.5	1405.075	1402.839	1402.549	1401.100	1400.458	1401.100	1402.549	1402.839	1405.075	1402.839
65.0	1260.340	1259.057	1259.533	1258.042	1260.112	1258.042	1259.533	1259.057	1260.340	1259.057
67.5	1117.220	1115.668	1117.489	1115.916	1114.798	1115.916	1117.489	1115.668	1117.220	1115.668
70.0	971.948	972.838	974.515	972.776	970.830	972.776	974.515	972.838	971.948	972.838
72.5	830.732	830.505	832.947	830.753	831.519	830.753	832.947	830.505	830.732	830.505
75.0	690.345	692.022	694.154	692.518	690.241	692.518	694.154	692.022	690.345	692.022
77.5	556.809	557.037	559.624	559.128	557.410	559.128	559.624	557.037	556.809	557.037
80.0	426.316	426.689	429.214	428.614	428.490	428.614	429.214	426.689	426.316	426.689
82.5	305.221	304.021	306.298	306.484	305.201	306.484	306.298	304.021	305.221	304.021
85.0	190.999	190.067	191.992	189.322	187.004	189.322	191.992	190.067	190.999	190.067
87.5	80.419	83.400	88.327	85.408	81.517	85.408	88.327	83.400	80.419	83.400
90.0	7.804	19.996	40.117	54.689	58.912	54.689	40.117	19.996	7.804	19.996
92.5	12.213	25.502	46.057	61.065	66.861	61.065	46.057	25.502	12.213	25.502
95.0	20.017	32.023	53.903	69.179	76.693	69.179	53.903	32.023	20.017	32.023
97.5	31.505	39.289	60.403	75.017	83.649	75.017	60.403	39.289	31.505	39.289
100.0	41.027	46.720	69.159	85.615	90.459	85.615	69.159	46.720	41.027	46.720
102.5	50.570	56.821	74.644	92.281	95.924	92.281	74.644	56.821	50.570	56.821
105.0	58.954	64.791	82.469	99.319	105.280	99.319	82.469	64.791	58.954	64.791
107.5	68.972	74.955	91.473	107.826	114.657	107.826	91.473	74.955	68.972	74.955
110.0	80.937	86.008	100.271	118.300	122.937	118.300	100.271	86.008	80.937	86.008
112.5	93.129	96.193	112.008	127.719	132.335	127.719	112.008	96.193	93.129	96.193
115.0	101.430	107.681	122.358	137.572	141.878	137.572	122.358	107.681	101.430	107.681
117.5	115.175	117.949	132.439	147.653	152.538	147.653	132.439	117.949	115.175	117.949
120.0	125.980	130.224	142.975	159.017	162.971	159.017	142.975	130.224	125.980	130.224
122.5	136.910	141.567	155.850	167.587	173.714	167.587	155.850	141.567	136.910	141.567
125.0	149.951	153.490	166.200	179.655	184.706	179.655	166.200	153.490	149.951	153.490
127.5	161.439	164.813	176.840	188.701	194.332	188.701	176.840	164.813	161.439	164.813
130.0	173.776	175.474	189.467	200.272	204.992	200.272	189.467	175.474	173.776	175.474
132.5	185.741	187.563	200.252	210.374	215.259	210.374	200.252	187.563	185.741	187.563

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CANDELA TABULATION - (Cont.)

135.0	197.374	197.292	210.291	220.310	224.533	220.310	210.291	197.292	197.374	197.292
137.5	208.076	209.567	220.662	230.225	235.028	230.225	220.662	209.567	208.076	209.567
140.0	220.434	221.366	231.881	239.333	243.867	239.333	231.881	221.366	220.434	221.366
142.5	234.179	234.303	241.176	249.580	252.478	249.580	241.176	234.303	234.179	234.303
145.0	245.254	244.384	250.429	258.916	262.083	258.916	250.429	244.384	245.254	244.384
147.5	254.506	253.906	258.833	266.347	269.907	266.347	258.833	253.906	254.506	253.906
150.0	263.056	262.579	267.237	274.585	275.538	274.585	267.237	262.579	263.056	262.579
152.5	273.116	271.087	275.124	281.810	283.445	281.810	275.124	271.087	273.116	271.087
155.0	280.112	279.512	283.197	288.993	290.007	288.993	283.197	279.512	280.112	279.512
157.5	288.268	286.757	289.469	294.664	297.935	294.664	289.469	286.757	288.268	286.757
160.0	295.389	294.623	295.534	300.067	302.468	300.067	295.534	294.623	295.389	294.623
162.5	301.413	300.357	301.972	304.745	305.842	304.745	301.972	300.357	301.413	300.357
165.0	309.299	306.256	306.008	310.666	309.134	310.666	306.008	306.256	309.299	306.256
167.5	313.708	310.541	311.224	312.984	312.653	312.984	311.224	310.541	313.708	310.541
170.0	318.635	314.288	314.185	316.524	317.952	316.524	314.185	314.288	318.635	314.288
172.5	321.223	318.138	316.917	319.815	319.194	319.815	316.917	318.138	321.223	318.138
175.0	324.183	319.836	319.546	321.947	319.877	321.947	319.546	319.836	324.183	319.836
177.5	324.597	321.367	320.643	321.285	320.643	321.285	320.643	321.367	324.597	321.367
180.0	322.444	322.444	322.444	322.444	322.444	322.444	322.444	322.444	322.444	322.444

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	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084	3577.084
2.5	3573.234	3573.524	3574.145	3573.524	3573.234	3572.075	3570.522
5.0	3560.648	3561.042	3558.578	3561.042	3560.648	3559.800	3557.854
7.5	3538.851	3539.451	3537.464	3539.451	3538.851	3537.961	3536.843
10.0	3510.016	3509.581	3509.333	3509.581	3510.016	3508.319	3507.097
12.5	3471.224	3470.376	3471.162	3470.376	3471.224	3471.969	3471.638
15.0	3426.843	3426.636	3425.084	3426.636	3426.843	3426.802	3424.401
17.5	3373.851	3373.168	3374.369	3373.168	3373.851	3373.313	3373.748
20.0	3313.801	3312.517	3313.470	3312.517	3313.801	3313.449	3311.876
22.5	3244.373	3243.379	3241.868	3243.379	3244.373	3245.263	3244.290
25.0	3168.984	3167.949	3167.017	3167.949	3168.984	3170.640	3169.584
27.5	3088.316	3086.266	3084.838	3086.266	3088.316	3087.715	3088.233
30.0	2999.823	2999.244	2995.642	2999.244	2999.823	2999.699	3000.113
32.5	2905.224	2903.755	2902.657	2903.755	2905.224	2905.990	2906.508
35.0	2805.181	2802.739	2801.414	2802.739	2805.181	2805.574	2810.273
37.5	2698.121	2697.872	2696.113	2697.872	2698.121	2700.563	2702.820
40.0	2587.148	2585.389	2585.099	2585.389	2587.148	2588.804	2588.245
42.5	2471.042	2469.137	2468.206	2469.137	2471.042	2473.132	2473.960
45.0	2349.616	2348.374	2348.187	2348.374	2349.616	2352.058	2354.273
47.5	2222.932	2221.772	2220.986	2221.772	2222.932	2225.146	2229.307
50.0	2093.805	2093.474	2093.080	2093.474	2093.805	2095.192	2099.249
52.5	1961.967	1959.938	1960.124	1959.938	1961.967	1962.588	1964.306
55.0	1827.023	1823.856	1824.167	1823.856	1827.023	1827.727	1828.555
57.5	1687.236	1685.601	1684.525	1685.601	1687.236	1686.781	1688.851
60.0	1545.131	1543.847	1541.777	1543.847	1545.131	1544.696	1548.091
62.5	1402.549	1401.100	1400.458	1401.100	1402.549	1402.839	1405.075
65.0	1259.533	1258.042	1260.112	1258.042	1259.533	1259.057	1260.340
67.5	1117.489	1115.916	1114.798	1115.916	1117.489	1115.668	1117.220
70.0	974.515	972.776	970.830	972.776	974.515	972.838	971.948
72.5	832.947	830.753	831.519	830.753	832.947	830.505	830.732
75.0	694.154	692.518	690.241	692.518	694.154	692.022	690.345
77.5	559.624	559.128	557.410	559.128	559.624	557.037	556.809
80.0	429.214	428.614	428.490	428.614	429.214	426.689	426.316

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CANDELA TABULATION - (Cont.)

82.5	306.298	306.484	305.201	306.484	306.298	304.021	305.221
85.0	191.992	189.322	187.004	189.322	191.992	190.067	190.999
87.5	88.327	85.408	81.517	85.408	88.327	83.400	80.419
90.0	40.117	54.689	58.912	54.689	40.117	19.996	7.804
92.5	46.057	61.065	66.861	61.065	46.057	25.502	12.213
95.0	53.903	69.179	76.693	69.179	53.903	32.023	20.017
97.5	60.403	75.017	83.649	75.017	60.403	39.289	31.505
100.0	69.159	85.615	90.459	85.615	69.159	46.720	41.027
102.5	74.644	92.281	95.924	92.281	74.644	56.821	50.570
105.0	82.469	99.319	105.280	99.319	82.469	64.791	58.954
107.5	91.473	107.826	114.657	107.826	91.473	74.955	68.972
110.0	100.271	118.300	122.937	118.300	100.271	86.008	80.937
112.5	112.008	127.719	132.335	127.719	112.008	96.193	93.129
115.0	122.358	137.572	141.878	137.572	122.358	107.681	101.430
117.5	132.439	147.653	152.538	147.653	132.439	117.949	115.175
120.0	142.975	159.017	162.971	159.017	142.975	130.224	125.980
122.5	155.850	167.587	173.714	167.587	155.850	141.567	136.910
125.0	166.200	179.655	184.706	179.655	166.200	153.490	149.951
127.5	176.840	188.701	194.332	188.701	176.840	164.813	161.439
130.0	189.467	200.272	204.992	200.272	189.467	175.474	173.776
132.5	200.252	210.374	215.259	210.374	200.252	187.563	185.741
135.0	210.291	220.310	224.533	220.310	210.291	197.292	197.374
137.5	220.662	230.225	235.028	230.225	220.662	209.567	208.076
140.0	231.881	239.333	243.867	239.333	231.881	221.366	220.434
142.5	241.176	249.580	252.478	249.580	241.176	234.303	234.179
145.0	250.429	258.916	262.083	258.916	250.429	244.384	245.254
147.5	258.833	266.347	269.907	266.347	258.833	253.906	254.506
150.0	267.237	274.585	275.538	274.585	267.237	262.579	263.056
152.5	275.124	281.810	283.445	281.810	275.124	271.087	273.116
155.0	283.197	288.993	290.007	288.993	283.197	279.512	280.112
157.5	289.469	294.664	297.935	294.664	289.469	286.757	288.268
160.0	295.534	300.067	302.468	300.067	295.534	294.623	295.389
162.5	301.972	304.745	305.842	304.745	301.972	300.357	301.413
165.0	306.008	310.666	309.134	310.666	306.008	306.256	309.299
167.5	311.224	312.984	312.653	312.984	311.224	310.541	313.708
170.0	314.185	316.524	317.952	316.524	314.185	314.288	318.635
172.5	316.917	319.815	319.194	319.815	316.917	318.138	321.223
175.0	319.546	321.947	319.877	321.947	319.546	319.836	324.183
177.5	320.643	321.285	320.643	321.285	320.643	321.367	324.597
180.0	322.444	322.444	322.444	322.444	322.444	322.444	322.444

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1304.97	N.A.	11.70
0-30	2765.27	N.A.	24.80
0-40	4519.47	N.A.	40.60
0-60	7962.79	N.A.	71.40
0-80	9942.75	N.A.	89.20
0-90	10163.86	N.A.	91.20
10-90	9825.68	N.A.	88.20
20-40	3214.49	N.A.	28.80
20-50	5026.52	N.A.	45.10
40-70	4689.55	N.A.	42.10
60-80	1979.96	N.A.	17.80
70-80	733.73	N.A.	6.60
80-90	221.11	N.A.	2.00
90-110	143.29	N.A.	1.30
90-120	264.71	N.A.	2.40
90-130	413.53	N.A.	3.70
90-150	732.92	N.A.	6.60
90-180	981.13	N.A.	8.80
110-180	837.83	N.A.	7.50
0-180	11144.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.19
10-20	966.79
20-30	1460.29
30-40	1754.2
40-50	1812.03
50-60	1631.29
60-70	1246.23
70-80	733.73
80-90	221.11
90-100	55.58
100-110	87.71
110-120	121.42
120-130	148.82
130-140	162.15
140-150	157.24
150-160	130.90
160-170	86.85
170-180	30.46

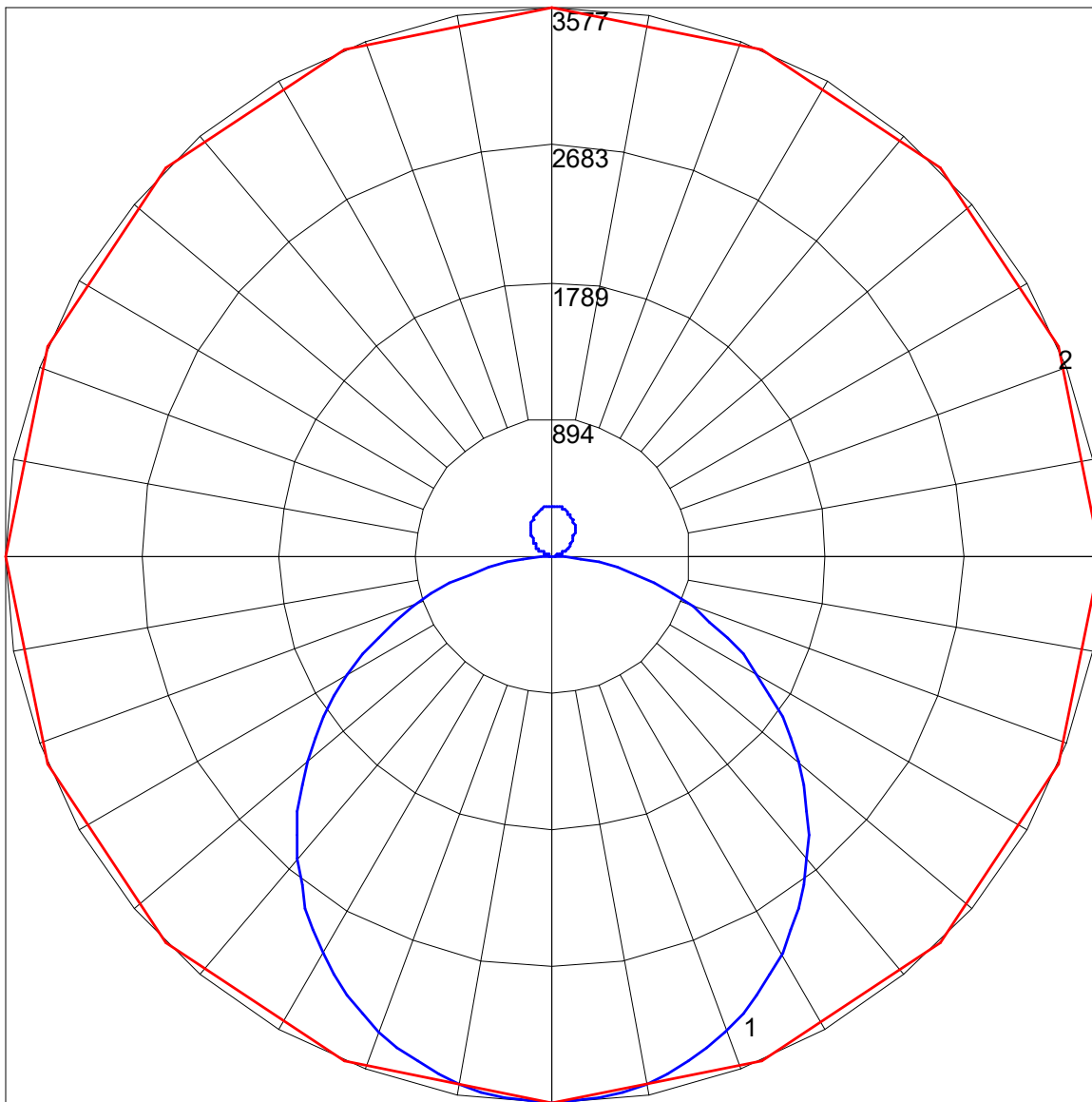
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	107	102	98	94	103	99	95	91	93	90	87	87	85	83	82	81	79	76
2	97	89	82	76	93	86	80	75	81	76	71	76	72	69	72	69	66	63
3	88	78	70	63	85	76	68	62	71	65	60	67	62	58	64	59	56	53
4	81	69	60	53	78	67	59	53	63	56	51	60	54	49	57	52	48	45
5	74	61	52	46	71	60	51	45	57	49	44	54	48	43	51	46	41	39
6	68	55	46	40	66	54	46	39	51	44	38	49	42	37	46	41	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	37	32	30
8	59	46	37	31	57	45	37	31	42	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 3577.084 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.)