



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8884
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	95
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	3417	3410	3408
55	3041	3039	3034
65	2545	2543	2544
75	1845	1855	1844
85	790	794	773

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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	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299
2.5	2846.068	2847.306	2848.230	2848.461	2848.956	2848.461	2848.230	2847.306	2846.068	2847.306
5.0	2835.970	2837.521	2838.198	2838.511	2836.548	2838.511	2838.198	2837.521	2835.970	2837.521
7.5	2819.223	2820.114	2820.823	2821.302	2819.718	2821.302	2820.823	2820.114	2819.223	2820.114
10.0	2795.512	2796.486	2797.839	2797.492	2797.294	2797.492	2797.839	2796.486	2795.512	2796.486
12.5	2767.248	2767.512	2766.918	2766.241	2766.868	2766.241	2766.918	2767.512	2767.248	2767.512
15.0	2729.595	2731.509	2731.542	2731.377	2730.139	2731.377	2731.542	2731.509	2729.595	2731.509
17.5	2689.219	2688.873	2689.302	2688.757	2689.714	2688.757	2689.302	2688.873	2689.219	2688.873
20.0	2639.901	2641.155	2641.435	2640.412	2641.171	2640.412	2641.435	2641.155	2639.901	2641.155
22.5	2586.028	2586.804	2586.094	2585.302	2584.098	2585.302	2586.094	2586.804	2586.028	2586.804
25.0	2526.480	2527.321	2526.001	2525.176	2524.434	2525.176	2526.001	2527.321	2526.480	2527.321
27.5	2461.635	2461.222	2461.701	2460.067	2458.929	2460.067	2461.701	2461.222	2461.635	2461.222
30.0	2391.394	2391.064	2391.163	2390.701	2387.830	2390.701	2391.163	2391.064	2391.394	2391.064
32.5	2316.781	2316.369	2315.758	2314.587	2313.712	2314.587	2315.758	2316.369	2316.781	2316.369
35.0	2240.073	2236.327	2236.014	2234.067	2233.011	2234.067	2236.014	2236.327	2240.073	2236.327
37.5	2154.421	2152.623	2150.676	2150.478	2149.075	2150.478	2150.676	2152.623	2154.421	2152.623
40.0	2063.094	2063.539	2062.219	2060.817	2060.586	2060.817	2062.219	2063.539	2063.094	2063.539
42.5	1971.997	1971.337	1969.671	1968.153	1967.410	1968.153	1969.671	1971.337	1971.997	1971.337
45.0	1876.594	1874.829	1872.882	1871.892	1871.743	1871.892	1872.882	1874.829	1876.594	1874.829
47.5	1776.984	1773.667	1771.902	1770.978	1770.351	1770.978	1771.902	1773.667	1776.984	1773.667
50.0	1673.314	1670.080	1668.975	1668.711	1668.397	1668.711	1668.975	1670.080	1673.314	1670.080
52.5	1565.751	1564.381	1563.886	1562.269	1562.418	1562.269	1563.886	1564.381	1565.751	1564.381
55.0	1457.544	1456.884	1456.323	1453.798	1454.046	1453.798	1456.323	1456.884	1457.544	1456.884
57.5	1346.185	1344.535	1344.898	1343.595	1342.737	1343.595	1344.898	1344.535	1346.185	1344.535
60.0	1233.985	1231.279	1231.626	1230.603	1228.953	1230.603	1231.626	1231.279	1233.985	1231.279
62.5	1119.987	1118.205	1117.974	1116.819	1116.307	1116.819	1117.974	1118.205	1119.987	1118.205
65.0	1004.619	1003.596	1003.975	1002.787	1004.437	1002.787	1003.975	1003.596	1004.619	1003.596
67.5	890.538	889.300	890.752	889.498	888.607	889.498	890.752	889.300	890.538	889.300
70.0	774.741	775.450	776.787	775.401	773.850	775.401	776.787	775.450	774.741	775.450
72.5	662.178	661.996	663.943	662.194	662.805	662.194	663.943	661.996	662.178	661.996
75.0	550.275	551.611	553.311	552.007	550.192	552.007	553.311	551.611	550.275	551.611
77.5	443.833	444.015	446.077	445.681	444.312	445.681	446.077	444.015	443.833	444.015
80.0	339.817	340.114	342.127	341.649	341.550	341.649	342.127	340.114	339.817	340.114
82.5	243.292	242.335	244.150	244.299	243.276	244.299	244.150	242.335	243.292	242.335
85.0	152.245	151.503	153.037	150.909	149.061	150.909	153.037	151.503	152.245	151.503
87.5	64.102	66.478	70.405	68.079	64.977	68.079	70.405	66.478	64.102	66.478
90.0	6.220	15.939	31.977	43.593	46.959	43.593	31.977	15.939	6.220	15.939
92.5	9.735	20.328	36.712	48.675	53.295	48.675	36.712	20.328	9.735	20.328
95.0	15.955	25.525	42.966	55.143	61.132	55.143	42.966	25.525	15.955	25.525
97.5	25.113	31.317	48.147	59.796	66.676	59.796	48.147	31.317	25.113	31.317
100.0	32.703	37.240	55.126	68.244	72.105	68.244	55.126	37.240	32.703	37.240
102.5	40.309	45.292	59.499	73.557	76.461	73.557	59.499	45.292	40.309	45.292
105.0	46.992	51.645	65.736	79.167	83.919	79.167	65.736	51.645	46.992	51.645
107.5	54.978	59.746	72.913	85.948	91.393	85.948	72.913	59.746	54.978	59.746
110.0	64.515	68.557	79.926	94.297	97.993	94.297	79.926	68.557	64.515	68.557
112.5	74.233	76.675	89.281	101.805	105.484	101.805	89.281	76.675	74.233	76.675
115.0	80.850	85.833	97.531	109.659	113.091	109.659	97.531	85.833	80.850	85.833
117.5	91.806	94.017	105.567	117.694	121.588	117.694	105.567	94.017	91.806	94.017
120.0	100.419	103.801	113.965	126.753	129.904	126.753	113.965	103.801	100.419	103.801
122.5	109.131	112.843	124.228	133.584	138.468	133.584	124.228	112.843	109.131	112.843
125.0	119.526	122.347	132.478	143.203	147.229	143.203	132.478	122.347	119.526	122.347
127.5	128.683	131.373	140.959	150.414	154.902	150.414	140.959	131.373	128.683	131.373
130.0	138.517	139.870	151.024	159.637	163.399	159.637	151.024	139.870	138.517	139.870
132.5	148.054	149.506	159.621	167.689	171.583	167.689	159.621	149.506	148.054	149.506

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CANDELA TABULATION - (Cont.)

135.0	157.327	157.261	167.623	175.609	178.975	175.609	167.623	157.261	157.327	157.261
137.5	165.858	167.046	175.890	183.513	187.341	183.513	175.890	167.046	165.858	167.046
140.0	175.708	176.451	184.833	190.773	194.386	190.773	184.833	176.451	175.708	176.451
142.5	186.664	186.763	192.241	198.940	201.250	198.940	192.241	186.763	186.664	186.763
145.0	195.492	194.799	199.617	206.382	208.906	206.382	199.617	194.799	195.492	194.799
147.5	202.867	202.389	206.316	212.305	215.143	212.305	206.316	202.389	202.867	202.389
150.0	209.682	209.302	213.015	218.872	219.631	218.872	213.015	209.302	209.682	209.302
152.5	217.701	216.084	219.301	224.631	225.934	224.631	219.301	216.084	217.701	216.084
155.0	223.278	222.799	225.736	230.356	231.165	230.356	225.736	222.799	223.278	222.799
157.5	229.779	228.574	230.736	234.877	237.484	234.877	230.736	228.574	229.779	228.574
160.0	235.455	234.844	235.570	239.184	241.098	239.184	235.570	234.844	235.455	234.844
162.5	240.256	239.415	240.702	242.913	243.787	242.913	240.702	239.415	240.256	239.415
165.0	246.543	244.117	243.919	247.632	246.411	247.632	243.919	244.117	246.543	244.117
167.5	250.057	247.533	248.077	249.480	249.216	249.480	248.077	247.533	250.057	247.533
170.0	253.984	250.519	250.437	252.301	253.440	252.301	250.437	250.519	253.984	250.519
172.5	256.047	253.588	252.615	254.925	254.430	254.925	252.615	253.588	256.047	253.588
175.0	258.406	254.941	254.710	256.624	254.974	256.624	254.710	254.941	258.406	254.941
177.5	258.736	256.162	255.585	256.096	255.585	256.096	255.585	256.162	258.736	256.162
180.0	257.020	257.020	257.020	257.020	257.020	257.020	257.020	257.020	257.020	257.020

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	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299	2851.299
2.5	2848.230	2848.461	2848.956	2848.461	2848.230	2847.306	2846.068
5.0	2838.198	2838.511	2836.548	2838.511	2838.198	2837.521	2835.970
7.5	2820.823	2821.302	2819.718	2821.302	2820.823	2820.114	2819.223
10.0	2797.839	2797.492	2797.294	2797.492	2797.839	2796.486	2795.512
12.5	2766.918	2766.241	2766.868	2766.241	2766.918	2767.512	2767.248
15.0	2731.542	2731.377	2730.139	2731.377	2731.542	2731.509	2729.595
17.5	2689.302	2688.757	2689.714	2688.757	2689.302	2688.873	2689.219
20.0	2641.435	2640.412	2641.171	2640.412	2641.435	2641.155	2639.901
22.5	2586.094	2585.302	2584.098	2585.302	2586.094	2586.804	2586.028
25.0	2526.001	2525.176	2524.434	2525.176	2526.001	2527.321	2526.480
27.5	2461.701	2460.067	2458.929	2460.067	2461.701	2461.222	2461.635
30.0	2391.163	2390.701	2387.830	2390.701	2391.163	2391.064	2391.394
32.5	2315.758	2314.587	2313.712	2314.587	2315.758	2316.369	2316.781
35.0	2236.014	2234.067	2233.011	2234.067	2236.014	2236.327	2240.073
37.5	2150.676	2150.478	2149.075	2150.478	2150.676	2152.623	2154.421
40.0	2062.219	2060.817	2060.586	2060.817	2062.219	2063.539	2063.094
42.5	1969.671	1968.153	1967.410	1968.153	1969.671	1971.337	1971.997
45.0	1872.882	1871.892	1871.743	1871.892	1872.882	1874.829	1876.594
47.5	1771.902	1770.978	1770.351	1770.978	1771.902	1773.667	1776.984
50.0	1668.975	1668.711	1668.397	1668.711	1668.975	1670.080	1673.314
52.5	1563.886	1562.269	1562.418	1562.269	1563.886	1564.381	1565.751
55.0	1456.323	1453.798	1454.046	1453.798	1456.323	1456.884	1457.544
57.5	1344.898	1343.595	1342.737	1343.595	1344.898	1344.535	1346.185
60.0	1231.626	1230.603	1228.953	1230.603	1231.626	1231.279	1233.985
62.5	1117.974	1116.819	1116.307	1116.819	1117.974	1118.205	1119.987
65.0	1003.975	1002.787	1004.437	1002.787	1003.975	1003.596	1004.619
67.5	890.752	889.498	888.607	889.498	890.752	889.300	890.538
70.0	776.787	775.401	773.850	775.401	776.787	775.450	774.741
72.5	663.943	662.194	662.805	662.194	663.943	661.996	662.178
75.0	553.311	552.007	550.192	552.007	553.311	551.611	550.275
77.5	446.077	445.681	444.312	445.681	446.077	444.015	443.833
80.0	342.127	341.649	341.550	341.649	342.127	340.114	339.817

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CANDELA TABULATION - (Cont.)

82.5	244.150	244.299	243.276	244.299	244.150	242.335	243.292
85.0	153.037	150.909	149.061	150.909	153.037	151.503	152.245
87.5	70.405	68.079	64.977	68.079	70.405	66.478	64.102
90.0	31.977	43.593	46.959	43.593	31.977	15.939	6.220
92.5	36.712	48.675	53.295	48.675	36.712	20.328	9.735
95.0	42.966	55.143	61.132	55.143	42.966	25.525	15.955
97.5	48.147	59.796	66.676	59.796	48.147	31.317	25.113
100.0	55.126	68.244	72.105	68.244	55.126	37.240	32.703
102.5	59.499	73.557	76.461	73.557	59.499	45.292	40.309
105.0	65.736	79.167	83.919	79.167	65.736	51.645	46.992
107.5	72.913	85.948	91.393	85.948	72.913	59.746	54.978
110.0	79.926	94.297	97.993	94.297	79.926	68.557	64.515
112.5	89.281	101.805	105.484	101.805	89.281	76.675	74.233
115.0	97.531	109.659	113.091	109.659	97.531	85.833	80.850
117.5	105.567	117.694	121.588	117.694	105.567	94.017	91.806
120.0	113.965	126.753	129.904	126.753	113.965	103.801	100.419
122.5	124.228	133.584	138.468	133.584	124.228	112.843	109.131
125.0	132.478	143.203	147.229	143.203	132.478	122.347	119.526
127.5	140.959	150.414	154.902	150.414	140.959	131.373	128.683
130.0	151.024	159.637	163.399	159.637	151.024	139.870	138.517
132.5	159.621	167.689	171.583	167.689	159.621	149.506	148.054
135.0	167.623	175.609	178.975	175.609	167.623	157.261	157.327
137.5	175.890	183.513	187.341	183.513	175.890	167.046	165.858
140.0	184.833	190.773	194.386	190.773	184.833	176.451	175.708
142.5	192.241	198.940	201.250	198.940	192.241	186.763	186.664
145.0	199.617	206.382	208.906	206.382	199.617	194.799	195.492
147.5	206.316	212.305	215.143	212.305	206.316	202.389	202.867
150.0	213.015	218.872	219.631	218.872	213.015	209.302	209.682
152.5	219.301	224.631	225.934	224.631	219.301	216.084	217.701
155.0	225.736	230.356	231.165	230.356	225.736	222.799	223.278
157.5	230.736	234.877	237.484	234.877	230.736	228.574	229.779
160.0	235.570	239.184	241.098	239.184	235.570	234.844	235.455
162.5	240.702	242.913	243.787	242.913	240.702	239.415	240.256
165.0	243.919	247.632	246.411	247.632	243.919	244.117	246.543
167.5	248.077	249.480	249.216	249.480	248.077	247.533	250.057
170.0	250.437	252.301	253.440	252.301	250.437	250.519	253.984
172.5	252.615	254.925	254.430	254.925	252.615	253.588	256.047
175.0	254.710	256.624	254.974	256.624	254.710	254.941	258.406
177.5	255.585	256.096	255.585	256.096	255.585	256.162	258.736
180.0	257.020	257.020	257.020	257.020	257.020	257.020	257.020

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1040.2	N.A.	11.70
0-30	2204.2	N.A.	24.80
0-40	3602.48	N.A.	40.60
0-60	6347.15	N.A.	71.40
0-80	7925.38	N.A.	89.20
0-90	8101.63	N.A.	91.20
10-90	7832.06	N.A.	88.20
20-40	2562.28	N.A.	28.80
20-50	4006.65	N.A.	45.10
40-70	3738.05	N.A.	42.10
60-80	1578.23	N.A.	17.80
70-80	584.86	N.A.	6.60
80-90	176.25	N.A.	2.00
90-110	114.22	N.A.	1.30
90-120	211.00	N.A.	2.40
90-130	329.63	N.A.	3.70
90-150	584.21	N.A.	6.60
90-180	782.06	N.A.	8.80
110-180	667.84	N.A.	7.50
0-180	8883.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	269.57
10-20	770.63
20-30	1164.00
30-40	1398.28
40-50	1444.37
50-60	1300.31
60-70	993.37
70-80	584.86
80-90	176.25
90-100	44.30
100-110	69.92
110-120	96.78
120-130	118.63
130-140	129.25
140-150	125.33
150-160	104.34
160-170	69.22
170-180	24.28

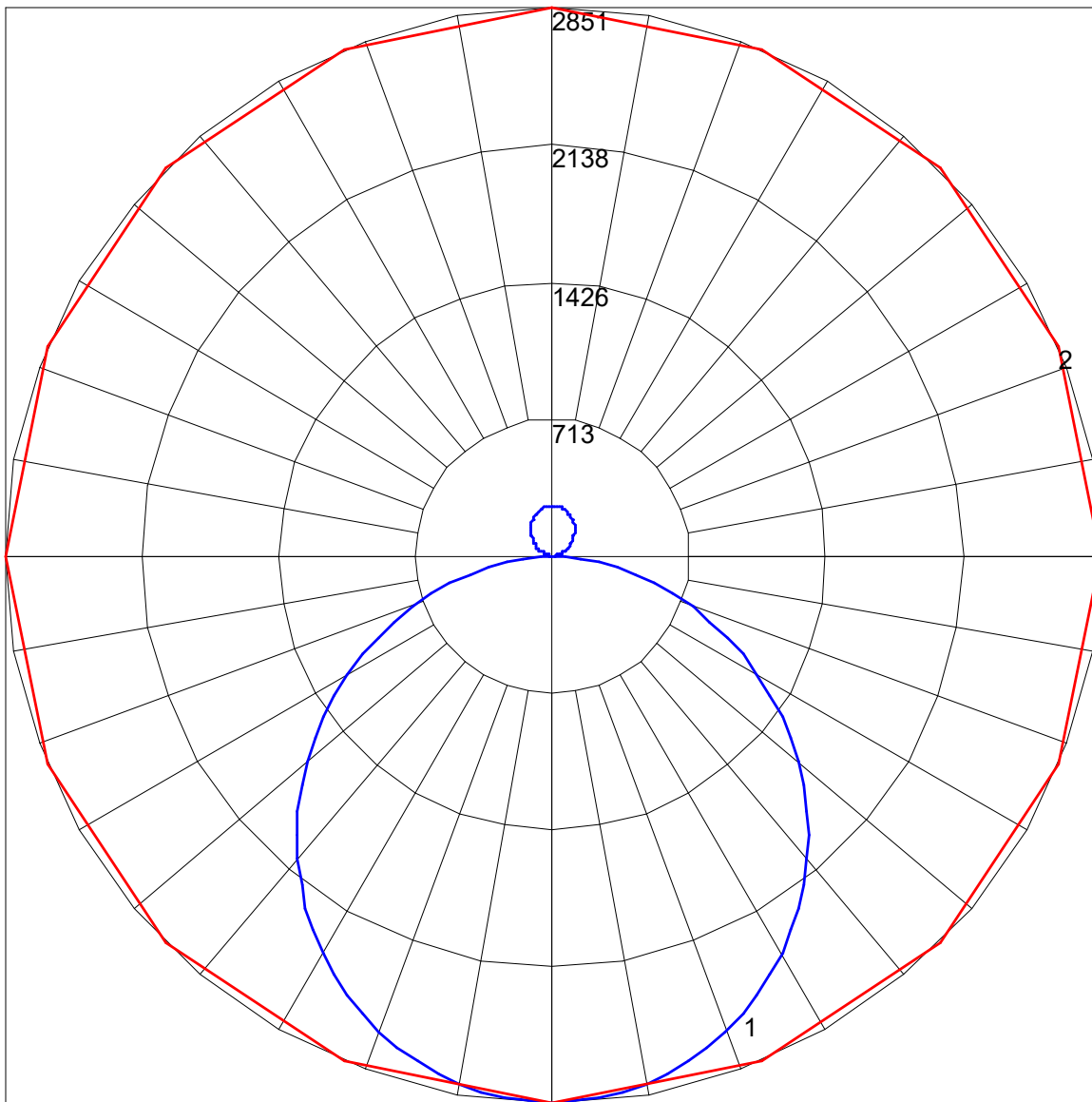
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	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 = 2851.299 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.)