



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041411807  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/14/2014  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] P4020-LED35-MO-FWA-D9  
 [LUMINAIRE] 26"DIA. X 5"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	59
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	2.06 ft (Diameter)
Luminous Width (90-270)	2.06 ft (Diameter)
Luminous Height	0.42 ft

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2497	2497	2497
55	2174	2174	2174
65	1840	1840	1840
75	1336	1336	1336
85	633	633	633

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES**

**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029
<b>5</b>	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626
<b>10</b>	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838
<b>15</b>	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230
<b>20</b>	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480
<b>25</b>	953.456	953.456	953.456	953.456	953.456	953.456	953.456	953.456	953.456	953.456
<b>30</b>	897.262	897.262	897.262	897.262	897.262	897.262	897.262	897.262	897.262	897.262
<b>35</b>	833.837	833.837	833.837	833.837	833.837	833.837	833.837	833.837	833.837	833.837
<b>40</b>	764.065	764.065	764.065	764.065	764.065	764.065	764.065	764.065	764.065	764.065
<b>45</b>	689.186	689.186	689.186	689.186	689.186	689.186	689.186	689.186	689.186	689.186
<b>50</b>	610.139	610.139	610.139	610.139	610.139	610.139	610.139	610.139	610.139	610.139
<b>55</b>	529.837	529.837	529.837	529.837	529.837	529.837	529.837	529.837	529.837	529.837
<b>60</b>	456.766	456.766	456.766	456.766	456.766	456.766	456.766	456.766	456.766	456.766
<b>65</b>	375.222	375.222	375.222	375.222	375.222	375.222	375.222	375.222	375.222	375.222
<b>70</b>	292.022	292.022	292.022	292.022	292.022	292.022	292.022	292.022	292.022	292.022
<b>75</b>	210.974	210.974	210.974	210.974	210.974	210.974	210.974	210.974	210.974	210.974
<b>80</b>	134.260	134.260	134.260	134.260	134.260	134.260	134.260	134.260	134.260	134.260
<b>85</b>	67.786	67.786	67.786	67.786	67.786	67.786	67.786	67.786	67.786	67.786
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	27.600	27.600	26.220	24.840	24.840	24.840	24.840	24.840	24.840	24.840
<b>100</b>	53.820	53.820	52.440	44.160	41.400	38.640	35.880	33.120	31.740	31.740
<b>105</b>	84.180	84.180	84.180	82.800	77.280	59.340	55.200	51.060	46.920	45.540
<b>110</b>	118.680	118.680	117.300	117.300	114.540	111.780	99.360	74.520	69.000	64.860
<b>115</b>	154.560	154.560	153.180	153.180	151.800	149.040	144.900	139.380	125.580	95.220
<b>120</b>	186.300	186.300	186.300	184.920	183.540	182.160	179.400	176.640	172.500	166.980
<b>125</b>	215.280	215.280	215.280	215.280	215.280	213.900	211.140	209.760	207.000	202.860
<b>130</b>	251.160	251.160	249.780	249.780	249.780	248.400	247.020	245.640	244.260	241.500
<b>135</b>	287.040	287.040	285.660	285.660	285.660	285.660	284.280	282.900	281.520	278.760
<b>140</b>	322.920	322.920	321.540	321.540	321.540	321.540	320.160	320.160	318.780	317.400
<b>145</b>	357.420	357.420	356.040	356.040	356.040	356.040	356.040	356.040	354.660	353.280
<b>150</b>	389.160	390.540	389.160	389.160	389.160	389.160	389.160	389.160	389.160	387.780
<b>155</b>	419.520	419.520	419.520	419.520	419.520	419.520	419.520	419.520	419.520	419.520
<b>160</b>	445.740	445.740	445.740	445.740	445.740	445.740	445.740	445.740	445.740	445.740
<b>165</b>	466.440	466.440	467.820	467.820	467.820	467.820	467.820	467.820	467.820	469.200
<b>170</b>	483.000	483.000	484.380	484.380	483.000	484.380	484.380	484.380	484.380	484.380
<b>175</b>	492.660	494.040	494.040	494.040	494.040	494.040	494.040	495.420	495.420	495.420
<b>180</b>	498.180	498.180	498.180	498.180	498.180	498.180	498.180	498.180	498.180	498.180

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029	1093.029
<b>5</b>	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626	1086.626
<b>10</b>	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838	1068.838
<b>15</b>	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230	1040.230
<b>20</b>	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480	1001.480
<b>25</b>	953.456	953.456	953.456	953.456	953.456	953.456	953.456	953.456	953.456
<b>30</b>	897.262	897.262	897.262	897.262	897.262	897.262	897.262	897.262	897.262
<b>35</b>	833.837	833.837	833.837	833.837	833.837	833.837	833.837	833.837	833.837
<b>40</b>	764.065	764.065	764.065	764.065	764.065	764.065	764.065	764.065	764.065
<b>45</b>	689.186	689.186	689.186	689.186	689.186	689.186	689.186	689.186	689.186
<b>50</b>	610.139	610.139	610.139	610.139	610.139	610.139	610.139	610.139	610.139
<b>55</b>	529.837	529.837	529.837	529.837	529.837	529.837	529.837	529.837	529.837
<b>60</b>	456.766	456.766	456.766	456.766	456.766	456.766	456.766	456.766	456.766

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	375.222	375.222	375.222	375.222	375.222	375.222	375.222	375.222	375.222
<b>70</b>	292.022	292.022	292.022	292.022	292.022	292.022	292.022	292.022	292.022
<b>75</b>	210.974	210.974	210.974	210.974	210.974	210.974	210.974	210.974	210.974
<b>80</b>	134.260	134.260	134.260	134.260	134.260	134.260	134.260	134.260	134.260
<b>85</b>	67.786	67.786	67.786	67.786	67.786	67.786	67.786	67.786	67.786
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	24.840	24.840	24.840	24.840	23.460	23.460	23.460	23.460	22.080
<b>100</b>	30.360	30.360	30.360	30.360	30.360	30.360	30.360	30.360	28.980
<b>105</b>	42.780	41.400	40.020	38.640	38.640	37.260	37.260	35.880	34.500
<b>110</b>	62.100	59.340	56.580	55.200	53.820	52.440	51.060	49.680	48.300
<b>115</b>	85.560	81.420	78.660	75.900	74.520	73.140	71.760	70.380	67.620
<b>120</b>	161.460	143.520	117.300	106.260	100.740	97.980	95.220	93.840	91.080
<b>125</b>	198.720	194.580	189.060	184.920	178.020	166.980	161.460	154.560	151.800
<b>130</b>	238.740	234.600	231.840	227.700	224.940	222.180	219.420	218.040	215.280
<b>135</b>	277.380	274.620	271.860	270.480	267.720	266.340	263.580	262.200	260.820
<b>140</b>	316.020	314.640	311.880	310.500	309.120	307.740	307.740	303.600	303.600
<b>145</b>	351.900	351.900	350.520	349.140	347.760	346.380	345.000	343.620	340.860
<b>150</b>	386.400	386.400	385.020	385.020	383.640	382.260	380.880	379.500	380.880
<b>155</b>	418.140	418.140	416.760	416.760	416.760	415.380	414.000	414.000	414.000
<b>160</b>	445.740	445.740	445.740	445.740	444.360	442.980	441.600	441.600	438.840
<b>165</b>	469.200	467.820	467.820	467.820	467.820	467.820	466.440	463.680	462.300
<b>170</b>	485.760	485.760	484.380	484.380	484.380	484.380	484.380	481.620	481.620
<b>175</b>	495.420	495.420	495.420	494.040	494.040	494.040	495.420	494.040	494.040
<b>180</b>	498.180	498.180	498.180	498.180	498.180	498.180	498.180	498.180	498.180

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	396.54	N.A.	9.40
0-30	835.79	N.A.	19.90
0-40	1357.3	N.A.	32.30
0-60	2364.85	N.A.	56.30
0-80	2959.91	N.A.	70.40
0-90	3033.37	N.A.	72.20
10-90	2930.2	N.A.	69.70
20-40	960.76	N.A.	22.90
20-50	1492.39	N.A.	35.50
40-70	1378.76	N.A.	32.80
60-80	595.06	N.A.	14.20
70-80	223.85	N.A.	5.30
80-90	73.46	N.A.	1.70
90-110	81.53	N.A.	1.90
90-120	192.34	N.A.	4.60
90-130	366.02	N.A.	8.70
90-150	799.86	N.A.	19.00
90-180	1170.64	N.A.	27.80
110-180	1089.11	N.A.	25.90
0-180	4204.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.16
10-20	293.37
20-30	439.25
30-40	521.51
40-50	531.63
50-60	475.92
60-70	371.21
70-80	223.85
80-90	73.46
90-100	23.28
100-110	58.26
110-120	110.81
120-130	173.67
130-140	213.70
140-150	220.14
150-160	192.28
160-170	131.63
170-180	46.88

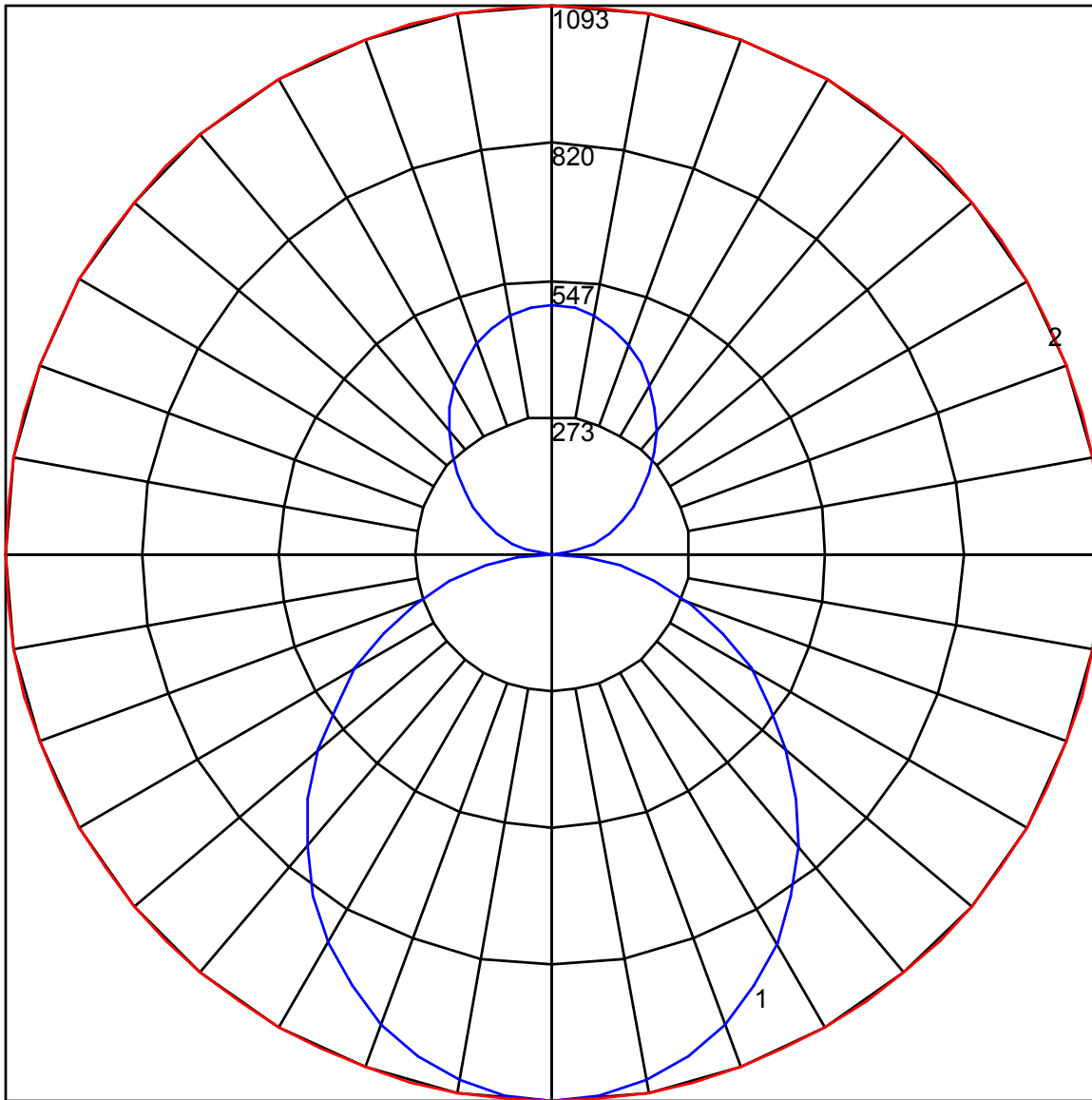
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4020-LED35-MO-FWA-D9.IES**

**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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60
2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50
3	85	75	67	61	80	71	64	58	64	58	54	58	53	49	52	48	45	42
4	78	66	58	51	73	63	55	49	57	51	46	51	46	42	46	42	39	36
5	71	59	50	44	67	56	48	42	51	44	39	46	41	37	42	37	34	31
6	66	53	44	38	62	50	43	37	46	39	34	42	36	32	38	33	30	27
7	61	48	39	34	57	46	38	33	42	35	30	38	32	28	34	30	26	24
8	56	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17

POLAR GRAPH



Maximum Candela = 1093.029 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.)