



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002143-001

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/21/2023

[MANUFAC] Picasso Lighting Industries, LLC

[LUMCAT] COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW

[LUMINAIRE] Pendant mounted, extruded black painted aluminum housing, white

[MORE] painted aluminum LED tray, frosted plastic insert in upper enclosure,

[MORE] translucent white plastic lower enclosure.

[LAMP] 192 white LEDs, 24 LEDs each on 4 boards in indirect section and

[MORE] 4 boards in direct section.

[BALLAST]

[OTHER] 120.0Vac, 60.00Hz, 77.44W, 0.976PF, 14.6%THD(i)

[OTHER] This file was modified from COB-PD-4-D5-I5-30-80-FWD-XX-WH-CW-LVPW.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	77.44
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.16 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8853	7386	7532
55	8510	6993	7337
65	7696	6707	7262
75	6760	6593	7358
85	4960	6822	7731

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	926.63	926.63	926.63	926.63	926.63
0.5	926.41	926.41	926.63	927.07	927.29
1.0	925.98	925.98	926.41	927.29	927.73
1.5	925.54	925.32	926.20	927.51	928.38
2.0	924.89	924.89	925.98	927.73	928.82
2.5	924.01	924.01	925.54	927.73	929.04
3.0	923.36	923.36	925.10	927.73	929.47
3.5	922.48	922.48	924.67	927.94	929.91
4.0	921.39	921.61	924.23	928.16	930.13
4.5	920.30	920.52	923.79	928.16	930.78
5.0	919.20	919.42	923.14	928.38	931.44
5.5	918.11	918.55	922.48	927.94	931.00
6.0	917.02	917.67	921.83	927.51	930.78
6.5	915.93	916.80	921.17	927.07	930.57
7.0	914.62	915.71	920.30	926.63	930.13
7.5	913.52	914.62	919.64	926.20	929.69
8.0	912.21	913.30	918.77	925.54	929.47
8.5	910.68	911.99	917.89	925.10	929.04
9.0	908.94	910.46	916.80	924.45	928.60
9.5	907.62	909.37	915.93	923.79	928.16
10.0	905.88	907.62	914.83	923.14	927.29
10.5	904.13	906.09	913.52	922.48	927.07
11.0	902.16	904.35	912.21	921.61	926.20
11.5	900.20	902.60	911.12	920.73	925.54
12.0	898.23	900.63	909.81	920.30	924.67
12.5	896.04	898.88	908.28	919.20	924.23
13.0	893.64	896.92	906.97	918.11	923.57
13.5	891.46	894.95	905.66	917.24	922.48
14.0	889.27	892.77	904.13	916.36	921.83
14.5	886.65	890.58	902.38	915.27	920.95
15.0	884.25	888.18	900.85	914.18	920.52
15.5	881.62	885.77	899.10	913.09	919.42
16.0	878.78	883.59	897.35	911.99	918.55
16.5	875.94	880.97	895.39	910.68	917.46
17.0	873.32	878.56	893.64	909.59	916.58
17.5	870.04	875.72	891.67	908.28	915.27
18.0	867.20	873.32	889.71	906.97	914.62
18.5	864.14	870.48	887.52	905.66	913.30
19.0	860.87	867.42	885.56	904.13	912.21
19.5	857.59	864.58	883.59	902.82	911.12
20.0	854.09	861.74	881.19	901.29	909.81
20.5	851.03	858.68	879.22	899.76	908.50
21.0	847.32	855.40	876.82	898.23	907.19
21.5	843.82	852.35	874.41	896.48	905.88
22.0	840.33	849.07	872.01	894.95	904.78
22.5	836.61	845.79	869.61	893.20	903.25
23.0	832.90	842.51	867.20	891.67	901.94
23.5	829.18	839.24	864.58	889.71	900.41
24.0	825.47	835.74	861.96	887.96	898.88
24.5	821.32	832.03	859.34	885.99	897.35
25.0	817.17	828.53	856.71	884.25	896.04
25.5	813.23	824.60	853.87	882.28	894.30
26.0	808.86	821.10	851.03	880.31	892.77
26.5	804.49	817.39	848.19	878.35	891.02

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

27.0	800.34	813.45	845.35	876.38	889.27
27.5	795.97	809.52	842.51	874.41	887.74
28.0	791.60	805.59	839.45	872.23	885.77
28.5	787.23	801.65	836.40	869.82	884.03
29.0	782.21	797.28	833.55	867.86	882.06
29.5	777.62	793.13	830.50	865.67	880.31
30.0	773.03	789.20	827.66	863.27	878.35
30.5	768.44	784.83	824.60	861.08	876.38
31.0	763.42	780.46	821.76	858.68	874.41
31.5	758.61	775.87	818.48	856.50	872.67
32.0	753.80	771.72	815.20	854.09	870.48
32.5	748.56	767.13	811.71	851.47	868.51
33.0	743.32	762.54	807.77	849.29	866.33
33.5	738.07	757.96	804.28	846.66	863.93
34.0	733.05	753.15	800.34	844.04	861.96
34.5	727.80	748.56	796.63	841.64	859.77
35.0	722.56	743.97	792.91	839.02	857.59
35.5	717.32	738.95	788.98	836.40	854.97
36.0	711.85	734.14	785.49	833.77	852.78
36.5	706.17	729.33	781.77	830.93	850.16
37.0	700.49	724.53	778.06	828.09	847.76
37.5	695.03	719.50	774.12	825.25	845.57
38.0	689.35	714.48	770.19	822.41	842.73
38.5	683.67	709.23	766.48	819.57	840.33
39.0	677.77	704.21	762.76	816.73	837.71
39.5	672.52	699.18	758.61	813.67	835.08
40.0	670.12	693.72	754.68	810.61	832.46
40.5	670.34	688.69	750.75	807.55	829.84
41.0	665.53	683.67	746.81	804.71	827.00
41.5	653.52	679.95	742.66	801.44	824.16
42.0	643.25	676.02	738.51	798.38	821.32
42.5	636.04	669.25	734.58	795.10	818.70
43.0	629.92	662.47	730.43	792.04	815.64
43.5	623.80	656.57	726.06	788.76	813.02
44.0	617.46	651.11	722.12	785.49	809.96
44.5	610.91	645.65	717.75	782.21	807.12
45.0	604.79	639.97	713.38	778.71	804.28
45.5	598.67	634.51	709.23	775.65	801.22
46.0	591.90	628.83	704.86	772.16	798.16
46.5	585.78	623.36	700.49	768.88	795.10
47.0	579.01	617.46	695.90	765.38	791.82
47.5	572.45	611.78	691.53	761.89	788.98
48.0	565.90	605.88	686.95	758.39	785.92
48.5	559.34	600.64	682.58	754.90	782.86
49.0	552.57	595.40	677.99	751.18	779.59
49.5	546.02	590.37	673.40	747.69	776.31
50.0	539.24	585.35	669.25	744.41	773.25
50.5	532.47	580.10	664.44	740.91	769.97
51.0	525.70	574.86	659.85	737.20	766.70
51.5	518.70	569.40	655.26	733.48	763.64
52.0	512.15	563.93	650.68	730.21	760.14
52.5	505.38	558.47	646.09	726.27	756.86
53.0	498.38	553.23	641.28	722.78	753.59
53.5	494.01	547.55	636.69	718.85	750.53
54.0	494.23	541.43	632.10	715.35	746.81
54.5	490.74	535.09	627.51	711.85	743.54

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

55.0	479.16	528.10	622.71	708.14	740.04
55.5	464.52	521.33	618.12	704.21	736.54
56.0	456.65	514.12	613.53	700.49	733.05
56.5	449.66	508.65	609.16	696.78	729.55
57.0	442.45	504.07	605.01	692.84	726.06
57.5	435.24	499.26	600.86	689.13	722.56
58.0	428.47	491.83	596.71	685.20	718.85
58.5	421.04	482.65	592.34	681.48	715.35
59.0	413.83	475.22	587.75	677.55	711.85
59.5	407.05	468.89	582.94	673.62	708.14
60.0	399.63	462.77	578.14	669.90	704.42
60.5	392.42	456.65	573.11	665.75	700.93
61.0	385.42	450.53	568.08	662.04	697.21
61.5	378.21	444.20	563.06	658.10	693.50
62.0	375.15	438.30	558.03	654.17	690.00
62.5	373.84	431.96	553.01	650.24	686.07
63.0	364.23	426.06	547.98	646.09	682.36
63.5	349.81	419.95	542.96	642.37	678.64
64.0	341.94	413.61	538.15	638.44	674.93
64.5	334.95	407.71	533.34	634.29	671.21
65.0	327.74	401.59	528.54	630.36	667.28
65.5	320.31	395.47	523.73	626.42	663.57
66.0	313.10	389.36	518.92	622.27	659.85
66.5	305.89	383.46	514.33	618.34	655.92
67.0	298.68	377.34	509.53	614.19	652.20
67.5	296.50	371.66	505.16	610.04	648.27
68.0	292.56	367.07	500.57	606.10	644.56
68.5	278.14	361.61	495.76	602.17	640.62
69.0	270.06	356.36	490.96	598.24	636.69
69.5	262.63	350.90	486.37	593.87	632.76
70.0	255.86	345.00	481.56	590.15	628.83
70.5	248.43	337.57	477.19	586.00	625.11
71.0	242.31	330.58	472.60	581.85	621.18
71.5	241.00	324.46	468.01	577.70	617.25
72.0	228.76	318.78	463.43	573.77	613.31
72.5	220.68	313.10	458.84	569.83	609.38
73.0	213.69	307.42	454.47	565.68	605.45
73.5	206.91	301.96	449.88	561.53	601.51
74.0	204.73	296.28	445.29	557.60	597.36
74.5	195.77	291.03	440.70	553.66	593.21
75.0	186.38	285.57	436.33	549.51	589.50
75.5	179.60	280.33	431.96	545.36	585.13
76.0	176.76	274.87	427.37	541.21	581.63
76.5	166.93	269.40	423.00	537.06	577.70
77.0	159.28	264.60	418.85	533.13	573.77
77.5	155.13	259.35	414.48	528.97	569.61
78.0	147.05	254.33	410.11	524.82	565.68
78.5	139.62	249.30	405.74	520.89	561.53
79.0	136.12	244.49	401.37	516.96	557.60
79.5	126.73	240.12	397.22	512.81	553.88
80.0	123.01	235.10	392.85	508.87	549.95
80.5	113.84	230.07	388.48	504.72	545.58
81.0	108.15	225.49	384.33	500.57	541.65
81.5	102.69	220.68	380.40	496.64	537.71
82.0	95.92	216.09	376.47	492.70	533.78
82.5	89.36	211.50	371.88	488.55	529.85

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

83.0	83.68	207.13	368.16	484.62	525.48
83.5	77.57	202.76	364.01	480.69	521.55
84.0	70.57	198.39	359.86	476.54	517.83
84.5	64.67	194.24	355.71	472.38	513.90
85.0	58.12	190.09	351.56	468.45	509.53
85.5	51.78	186.16	347.62	464.52	505.60
86.0	45.88	182.22	343.91	460.37	501.88
86.5	39.77	178.29	339.98	456.43	497.95
87.0	33.65	174.58	336.26	452.50	493.80
87.5	26.66	170.64	332.11	448.57	489.86
88.0	20.76	167.15	328.18	444.64	486.15
88.5	14.42	163.43	324.25	440.48	482.00
89.0	8.52	159.94	320.75	436.77	478.06
89.5	2.62	156.44	316.82	432.84	474.13
90.0	1.53	153.16	313.10	428.90	470.20
90.5	2.40	150.32	310.26	426.06	467.58
91.0	4.59	147.05	306.55	422.35	463.64
91.5	10.27	144.21	303.05	418.42	459.71
92.0	16.39	141.15	299.56	414.70	455.56
92.5	23.38	138.31	296.06	410.77	451.85
93.0	30.59	135.68	292.34	407.05	448.13
93.5	38.02	133.28	289.07	403.34	443.98
94.0	45.45	130.88	285.35	399.41	440.05
94.5	52.44	129.57	282.29	395.47	436.11
95.0	59.65	129.35	279.02	391.98	432.40
95.5	67.08	130.66	275.74	388.26	428.25
96.0	74.51	134.16	272.46	384.55	424.75
96.5	82.37	139.40	269.40	380.62	420.82
97.0	90.02	147.05	266.56	377.12	417.11
97.5	97.89	156.88	263.94	373.41	413.39
98.0	105.31	167.80	261.97	369.69	409.46
98.5	113.84	178.73	260.44	366.20	405.52
99.0	121.70	189.22	259.79	363.14	401.81
99.5	130.22	199.05	259.57	360.08	398.53
100.0	138.31	208.66	260.44	357.46	395.47
100.5	146.83	217.62	262.19	355.05	392.20
101.0	155.57	226.14	264.81	352.87	389.36
101.5	164.31	234.66	268.75	351.56	386.73
102.0	173.05	243.18	273.77	350.25	384.77
102.5	182.01	251.27	280.33	349.81	383.24
103.0	191.18	259.79	288.41	350.03	382.15
103.5	200.36	267.87	297.37	350.68	381.27
104.0	209.54	276.18	307.42	352.21	381.27
104.5	218.71	284.48	319.00	354.62	381.71
105.0	228.33	293.00	330.80	357.89	382.80
105.5	237.94	301.74	343.25	362.04	384.55
106.0	247.55	310.04	355.49	367.29	387.17
106.5	257.39	319.22	367.73	373.62	390.67
107.0	267.22	327.96	379.74	380.84	395.04
107.5	277.27	336.92	391.54	389.79	400.28
108.0	287.32	345.66	402.90	399.19	406.84
108.5	297.37	354.83	413.83	409.46	414.05
109.0	307.64	364.01	424.75	420.82	422.57
109.5	317.69	372.97	435.24	432.62	432.18
110.0	328.40	382.58	445.73	445.29	442.67
110.5	338.67	391.76	455.78	457.74	453.81

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

111.0	349.37	401.37	466.05	470.42	465.61
111.5	359.86	410.77	475.88	482.87	477.85
112.0	370.35	420.38	485.71	495.54	490.52
112.5	380.62	430.00	495.33	508.00	502.97
113.0	391.10	439.39	504.94	520.02	515.65
113.5	402.03	449.22	514.77	531.81	528.54
114.0	412.52	459.06	524.17	543.61	540.77
114.5	423.44	469.11	533.78	555.41	553.66
115.0	434.37	478.94	543.18	566.55	565.46
115.5	445.29	488.99	552.79	577.70	577.70
116.0	456.00	498.82	562.19	588.40	589.50
116.5	466.70	508.65	571.58	599.11	601.08
117.0	477.63	518.70	580.76	609.60	612.44
117.5	488.55	528.76	590.15	620.09	623.36
118.0	499.91	538.81	599.77	630.79	634.29
118.5	510.62	548.86	608.94	640.84	645.21
119.0	521.76	559.34	618.34	651.33	655.92
119.5	532.91	569.40	627.73	661.16	666.41
120.0	543.61	579.88	637.35	671.21	676.89
120.5	554.97	590.15	646.74	680.83	687.16
121.0	566.12	600.64	656.57	690.88	697.43
121.5	576.82	610.69	665.75	700.49	707.70
122.0	587.97	621.18	675.36	709.89	717.32
122.5	599.11	631.88	684.76	719.72	727.59
123.0	610.25	642.15	694.37	729.11	737.20
123.5	621.40	652.86	704.21	738.73	747.25
124.0	632.32	663.35	713.82	748.12	756.86
124.5	644.12	674.05	723.65	757.74	766.70
125.0	655.05	684.76	733.27	767.13	776.31
125.5	666.41	695.47	743.10	776.96	785.92
126.0	677.55	705.74	752.93	786.14	795.76
126.5	688.47	716.44	762.76	795.32	805.15
127.0	699.84	726.93	772.38	805.15	814.98
127.5	710.54	737.64	782.21	814.76	824.38
128.0	722.34	748.12	792.04	824.38	834.21
128.5	733.48	759.05	801.87	833.99	843.61
129.0	744.63	769.54	811.71	843.61	853.44
129.5	755.99	780.02	821.54	853.00	862.83
130.0	767.13	790.95	831.81	862.83	872.67
130.5	778.49	801.44	841.64	872.23	882.06
131.0	789.20	811.92	851.47	882.06	891.67
131.5	800.56	822.85	861.52	891.89	901.51
132.0	811.92	833.55	871.35	901.29	910.68
132.5	823.07	844.26	881.62	911.34	920.52
133.0	833.99	854.75	891.46	920.95	929.91
133.5	845.57	865.45	901.51	930.57	939.52
134.0	856.06	875.72	911.34	940.18	948.92
134.5	867.86	886.65	921.39	950.23	958.53
135.0	878.78	897.14	931.00	959.63	968.15
135.5	889.49	907.62	940.84	969.24	977.54
136.0	900.85	918.55	950.89	979.07	987.37
136.5	911.34	928.82	960.94	988.90	996.77
137.0	922.70	939.52	970.77	998.52	1006.60
137.5	933.41	950.01	980.38	1007.91	1015.78
138.0	944.55	960.50	990.43	1017.75	1025.39
138.5	955.69	970.77	1000.05	1027.14	1034.79

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

139.0	966.40	981.48	1010.32	1036.54	1044.40
139.5	976.67	991.74	1019.71	1045.93	1053.80
140.0	987.37	1001.79	1029.33	1055.33	1062.97
140.5	998.30	1012.28	1039.16	1065.16	1072.37
141.0	1008.57	1022.55	1048.77	1074.33	1081.76
141.5	1019.49	1032.82	1058.82	1083.73	1090.94
142.0	1030.42	1042.87	1068.65	1092.91	1100.12
142.5	1041.34	1052.70	1078.05	1102.30	1109.73
143.0	1051.17	1062.75	1087.66	1111.48	1118.69
143.5	1061.66	1073.02	1097.28	1120.66	1128.08
144.0	1072.37	1082.64	1106.67	1129.83	1136.82
144.5	1082.20	1092.25	1116.07	1138.79	1145.78
145.0	1091.81	1102.30	1125.24	1147.75	1154.74
145.5	1101.87	1111.92	1134.20	1156.49	1163.48
146.0	1112.13	1121.75	1143.82	1165.67	1172.44
146.5	1121.97	1131.14	1152.77	1174.41	1180.96
147.0	1132.24	1140.32	1161.95	1183.15	1189.48
147.5	1142.07	1149.72	1170.47	1191.88	1198.22
148.0	1151.46	1159.55	1179.87	1200.62	1206.96
148.5	1161.51	1168.72	1188.61	1209.15	1215.05
149.0	1170.69	1177.68	1197.35	1217.45	1223.35
149.5	1180.09	1186.64	1206.09	1226.19	1231.87
150.0	1189.04	1195.16	1214.39	1234.27	1239.73
150.5	1198.00	1204.34	1223.13	1242.79	1248.04
151.0	1207.18	1213.30	1231.43	1250.88	1256.12
151.5	1216.57	1222.26	1239.95	1258.96	1264.21
152.0	1225.53	1230.56	1248.04	1266.83	1271.85
152.5	1234.05	1239.30	1256.34	1274.69	1279.72
153.0	1242.79	1247.16	1264.42	1282.56	1287.15
153.5	1251.53	1255.03	1272.07	1289.99	1294.58
154.0	1260.27	1263.33	1280.16	1297.85	1302.01
154.5	1268.58	1271.85	1287.59	1305.28	1309.22
155.0	1276.66	1280.16	1295.45	1312.71	1316.43
155.5	1284.53	1287.80	1302.88	1319.92	1323.20
156.0	1292.61	1295.67	1310.31	1327.13	1330.19
156.5	1300.26	1302.88	1317.74	1333.91	1337.18
157.0	1308.34	1310.53	1324.95	1340.90	1343.96
157.5	1315.99	1317.52	1331.72	1347.45	1350.29
158.0	1323.42	1324.73	1338.71	1354.01	1356.63
158.5	1330.41	1331.94	1345.27	1360.56	1363.18
159.0	1336.96	1338.93	1352.04	1367.12	1369.08
159.5	1344.18	1345.70	1358.16	1373.45	1374.98
160.0	1350.95	1352.04	1364.71	1379.57	1380.88
160.5	1357.72	1358.60	1371.05	1385.47	1386.78
161.0	1364.71	1365.15	1377.17	1391.37	1392.46
161.5	1371.27	1371.49	1383.29	1397.27	1397.71
162.0	1377.39	1377.60	1388.75	1402.73	1403.39
162.5	1383.29	1383.72	1394.43	1407.98	1408.63
163.0	1389.18	1389.62	1399.89	1413.22	1413.87
163.5	1394.65	1395.08	1405.13	1418.46	1418.68
164.0	1400.55	1400.77	1410.38	1423.49	1423.27
164.5	1406.23	1406.01	1415.19	1428.30	1428.30
165.0	1411.47	1411.47	1420.43	1433.10	1432.45
165.5	1416.93	1416.06	1425.02	1437.69	1437.04
166.0	1422.18	1421.08	1429.82	1442.28	1441.19
166.5	1426.98	1425.24	1434.41	1446.43	1445.34

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****CANDELA TABULATION - (Cont.)**

167.0	1431.35	1430.04	1438.35	1450.36	1449.49
167.5	1435.94	1434.63	1442.72	1454.30	1453.20
168.0	1440.31	1439.00	1446.87	1458.23	1457.14
168.5	1444.46	1443.15	1450.80	1461.72	1460.63
169.0	1448.40	1447.30	1454.51	1465.22	1464.13
169.5	1452.33	1451.02	1458.23	1468.72	1467.19
170.0	1456.04	1454.51	1461.72	1471.99	1470.46
170.5	1459.54	1458.01	1465.22	1475.05	1473.31
171.0	1462.60	1461.29	1468.06	1477.89	1476.36
171.5	1465.88	1464.35	1471.12	1480.73	1478.77
172.0	1468.94	1467.41	1473.96	1483.36	1481.61
172.5	1471.78	1470.03	1476.36	1485.98	1484.01
173.0	1474.18	1472.65	1478.77	1487.94	1486.41
173.5	1476.80	1475.05	1480.95	1490.35	1488.82
174.0	1479.20	1477.24	1483.36	1492.31	1490.78
174.5	1481.17	1479.20	1485.10	1494.06	1492.53
175.0	1482.92	1481.17	1486.85	1496.03	1494.28
175.5	1485.10	1483.57	1488.60	1496.47	1495.37
176.0	1487.29	1485.76	1490.13	1497.12	1496.25
176.5	1489.04	1487.73	1491.66	1497.78	1496.68
177.0	1490.57	1489.69	1492.97	1498.21	1497.34
177.5	1492.10	1491.44	1494.06	1498.43	1497.78
178.0	1493.62	1492.75	1494.94	1498.43	1497.99
178.5	1494.50	1494.06	1495.81	1498.21	1497.99
179.0	1495.59	1495.15	1496.25	1497.99	1497.78
179.5	1496.25	1496.03	1496.47	1497.34	1497.34
180.0	1496.90	1496.90	1496.90	1496.90	1496.90

IES INDOOR REPORT**PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	342.65	N.A.	4.30
0-30	737.89	N.A.	9.20
0-40	1233.69	N.A.	15.40
0-60	2333.5	N.A.	29.20
0-80	3283.07	N.A.	41.00
0-90	3636.57	N.A.	45.50
10-90	3548.64	N.A.	44.40
20-40	891.04	N.A.	11.10
20-50	1439.11	N.A.	18.00
40-70	1610.31	N.A.	20.10
60-80	949.57	N.A.	11.90
70-80	439.07	N.A.	5.50
80-90	353.50	N.A.	4.40
90-110	639.97	N.A.	8.00
90-120	1155.88	N.A.	14.40
90-130	1804.73	N.A.	22.60
90-150	3224.28	N.A.	40.30
90-180	4363.15	N.A.	54.50
110-180	3723.18	N.A.	46.50
0-180	7999.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.93
10-20	254.72
20-30	395.24
30-40	495.80
40-50	548.07
50-60	551.74
60-70	510.50
70-80	439.07
80-90	353.50
90-100	292.05
100-110	347.92
110-120	515.91
120-130	648.86
130-140	716.14
140-150	703.41
150-160	596.82
160-170	400.80
170-180	141.25

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

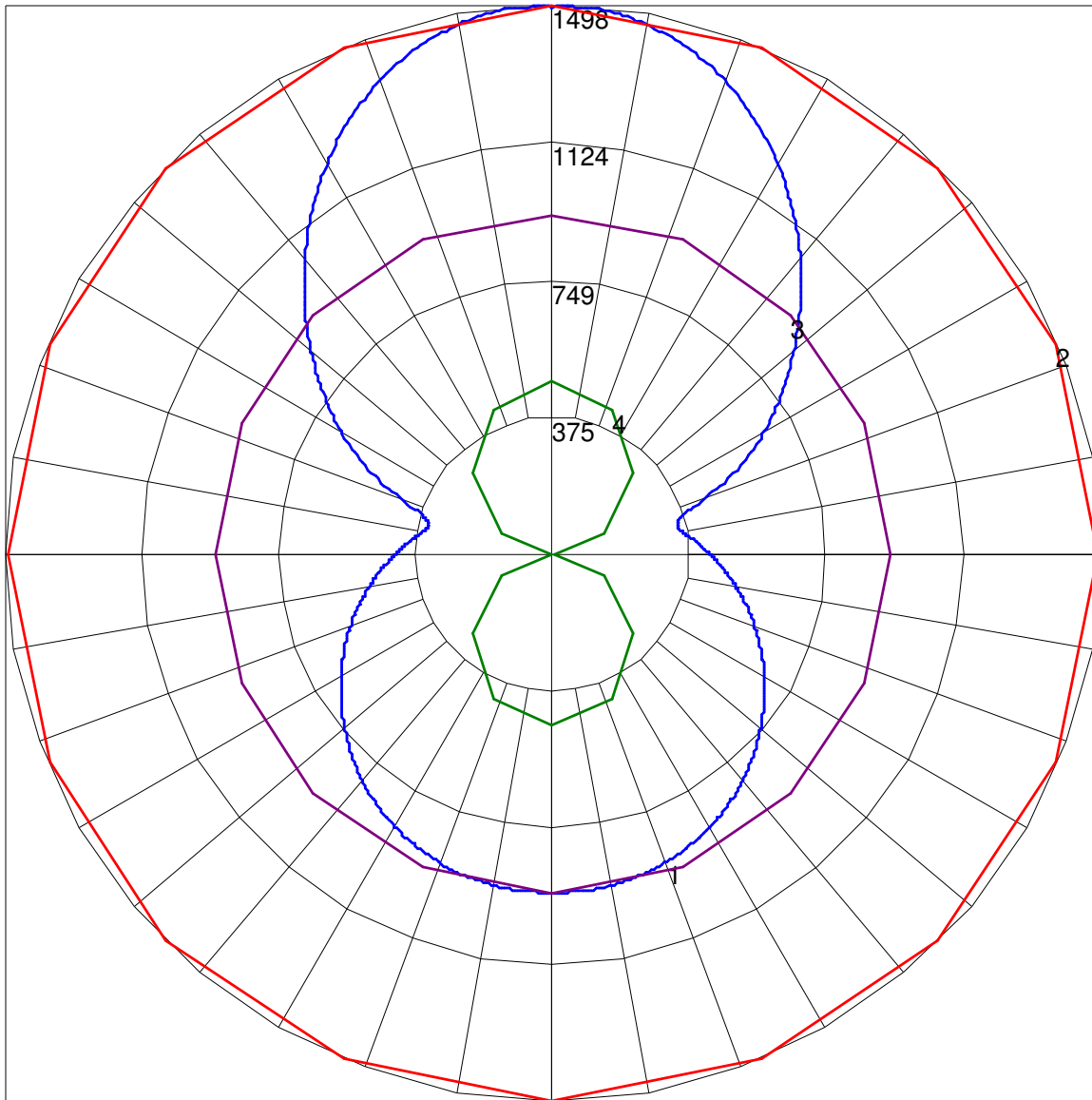
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	95	90	85	81	86	82	78	74	68	65	62	55	53	51	43	41	40	34
2	85	77	70	64	78	71	65	59	58	54	50	47	44	41	36	34	32	27
3	78	67	59	53	70	61	54	49	51	45	41	41	37	34	32	29	26	22
4	71	59	50	44	64	54	47	41	45	39	34	36	32	28	28	25	22	18
5	65	52	44	37	59	48	40	35	40	34	29	32	28	24	25	22	19	16
6	59	47	38	32	54	43	35	30	36	30	25	29	24	21	23	19	17	13
7	55	42	34	28	50	39	31	26	32	26	22	26	22	18	20	17	15	12
8	51	38	30	24	46	35	28	23	29	23	19	24	19	16	19	15	13	10
9	47	35	27	22	43	32	25	20	27	21	17	22	17	14	17	14	12	9
10	44	32	24	19	40	29	22	18	25	19	15	20	16	13	16	13	10	8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COB-PD-4-D10-I10-30-80-FWD-XX-WH-CW-LVPW.IES

POLAR GRAPH



Maximum Candela = 1498.43 Located At Horizontal Angle = 67.5, Vertical Angle = 177.5

1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)

3 - Horizontal Cone Through Vertical Angle (2)

4 - Horizontal Cone Through Vertical Angle (90)