

Photometric Toolbox

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 104599123CHI-001
 [TESTDATE] 2/18/2021
 [TESTLAB] Intertek
 [ISSUE DATE]
 [MANUFAC] AFX Inc.
 [LUMCAT] PRCL450750LAJUDWH
 [LUMINAIRE] Linear
 [LAMP] LED
 [TOTALLUMINAIRELUMENS] 4214.3

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)	91
Total Luminaire Watts	46.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.54 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.19 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6182	5290	5347
55	5855	4828	4955
65	5313	4279	4528
75	4303	3679	4122
85	2172	3116	3866

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

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	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4
2.5	1183.0	1190.6	1204.0	1219.9	1234.0	1221.3	1204.5	1189.8	1182.2	1189.8
5.0	1180.7	1188.4	1202.6	1219.4	1232.9	1219.6	1202.9	1186.8	1179.4	1186.8
7.5	1176.5	1184.9	1201.1	1217.4	1230.0	1216.2	1198.7	1181.8	1174.1	1181.8
10.0	1170.5	1179.5	1196.6	1213.4	1225.6	1210.9	1191.9	1174.8	1166.5	1174.8
12.5	1162.1	1170.8	1188.1	1206.2	1218.7	1203.2	1183.5	1165.4	1155.6	1165.4
15.0	1150.9	1158.0	1176.5	1195.4	1207.6	1191.9	1171.3	1153.3	1141.9	1153.3
17.5	1137.0	1142.5	1161.3	1181.2	1194.9	1178.2	1157.5	1139.0	1124.3	1139.0
20.0	1120.9	1124.1	1144.2	1165.0	1178.8	1162.3	1140.3	1121.0	1105.2	1121.0
22.5	1100.6	1103.4	1125.0	1146.3	1159.9	1143.6	1121.1	1100.1	1082.7	1100.1
25.0	1078.8	1080.5	1102.8	1125.0	1139.8	1122.3	1098.3	1076.4	1057.2	1076.4
27.5	1054.3	1055.7	1079.5	1103.6	1117.0	1099.7	1073.8	1050.3	1030.1	1050.3
30.0	1028.4	1028.0	1053.8	1078.9	1092.6	1074.4	1047.4	1021.6	1000.6	1021.6
32.5	999.1	998.1	1026.1	1052.0	1066.2	1046.9	1019.0	990.9	969.0	990.9
35.0	967.8	966.6	996.3	1023.8	1038.5	1018.2	988.1	958.7	934.7	958.7
37.5	933.6	932.5	963.6	993.1	1008.7	987.9	955.8	924.2	899.3	924.2
40.0	897.4	895.5	929.4	961.4	977.3	956.0	922.0	888.1	862.5	888.1
42.5	859.2	857.1	893.2	926.9	943.8	922.4	886.0	850.3	823.5	850.3
45.0	818.7	817.3	855.6	891.4	908.6	887.2	848.2	810.1	782.5	810.1
47.5	776.3	775.5	816.8	854.5	872.2	850.5	810.6	769.7	740.9	769.7
50.0	733.4	732.8	777.0	817.3	835.6	813.3	771.4	728.7	698.4	728.7
52.5	689.0	689.4	736.3	779.1	797.8	775.8	731.4	686.1	653.1	686.1
55.0	642.7	644.8	693.8	739.9	759.0	736.8	689.2	641.4	606.8	641.4
57.5	596.0	599.3	650.3	699.5	718.6	695.7	645.9	595.9	559.4	595.9
60.0	547.1	552.7	606.3	657.3	677.9	654.5	602.6	549.8	510.6	549.8
62.5	496.9	505.3	562.5	616.0	637.1	614.0	559.1	502.8	460.8	502.8
65.0	445.1	457.8	519.1	575.5	596.9	573.6	516.1	455.5	410.2	455.5
67.5	393.7	410.7	476.3	534.9	556.7	533.3	473.3	408.5	358.9	408.5
70.0	341.1	363.0	433.3	494.5	516.7	493.1	430.3	361.3	306.4	361.3
72.5	288.9	315.7	391.1	454.6	477.3	453.1	388.2	313.8	254.2	313.8
75.0	237.6	270.3	350.4	415.7	438.7	414.3	348.2	268.3	203.3	268.3
77.5	188.0	226.2	311.0	378.1	401.6	377.3	309.7	224.9	155.0	224.9
80.0	140.1	184.8	273.6	341.8	366.3	341.4	272.3	183.8	108.4	183.8
82.5	94.3	146.6	238.7	307.5	332.5	306.9	237.3	146.0	66.7	146.0
85.0	54.3	113.6	206.5	275.8	300.8	275.0	205.8	113.3	32.4	113.3
87.5	23.1	86.0	177.7	246.6	271.0	245.8	177.6	86.5	9.6	86.5
90.0	5.2	65.0	152.6	219.6	244.0	219.5	153.2	66.2	2.6	66.2
92.5	2.5	50.2	131.8	195.8	219.5	195.9	132.7	51.4	2.6	51.4
95.0	2.5	39.6	114.1	174.6	197.3	174.5	115.1	40.9	2.6	40.9
97.5	2.4	32.0	99.1	155.8	177.1	156.0	100.4	33.3	2.5	33.3
100.0	2.7	26.3	86.6	139.3	159.2	139.8	88.1	27.6	2.6	27.6
102.5	2.5	22.2	75.8	124.5	143.3	125.2	77.4	23.5	2.6	23.5
105.0	2.6	19.1	66.4	111.3	129.0	112.4	68.1	20.3	2.7	20.3
107.5	2.8	16.7	58.3	99.5	116.0	100.8	60.3	17.8	2.7	17.8
110.0	2.7	14.5	51.5	88.9	104.1	90.1	53.4	15.7	2.7	15.7
112.5	2.8	12.8	45.6	79.4	93.4	80.4	47.4	13.8	2.8	13.8
115.0	2.6	11.3	40.5	70.7	83.6	72.0	42.2	12.2	2.6	12.2
117.5	2.6	10.0	36.0	63.1	75.0	64.4	37.8	10.9	2.7	10.9
120.0	2.7	9.0	32.1	56.5	67.2	57.7	33.9	9.8	2.7	9.8
122.5	2.8	8.1	28.6	50.6	60.2	51.7	30.2	8.8	2.7	8.8
125.0	2.9	7.3	25.4	45.1	53.9	46.1	26.7	7.9	2.8	7.9
127.5	2.9	6.6	22.4	40.0	47.9	41.0	23.5	7.0	2.8	7.0
130.0	3.1	6.1	19.8	35.3	42.4	36.4	20.8	6.3	2.8	6.3
132.5	3.0	5.5	17.3	31.0	37.3	32.0	18.3	5.6	2.8	5.6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

CANDELA TABULATION - (Cont.)

135.0	3.2	5.1	15.2	27.1	32.6	28.1	15.9	5.1	2.8	5.1
137.5	3.4	4.7	13.3	23.6	28.3	24.4	13.6	4.6	2.8	4.6
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4
2.5	1204.5	1221.3	1234.0	1219.9	1204.0	1190.6	1183.0
5.0	1202.9	1219.6	1232.9	1219.4	1202.6	1188.4	1180.7
7.5	1198.7	1216.2	1230.0	1217.4	1201.1	1184.9	1176.5
10.0	1191.9	1210.9	1225.6	1213.4	1196.6	1179.5	1170.5
12.5	1183.5	1203.2	1218.7	1206.2	1188.1	1170.8	1162.1
15.0	1171.3	1191.9	1207.6	1195.4	1176.5	1158.0	1150.9
17.5	1157.5	1178.2	1194.9	1181.2	1161.3	1142.5	1137.0
20.0	1140.3	1162.3	1178.8	1165.0	1144.2	1124.1	1120.9
22.5	1121.1	1143.6	1159.9	1146.3	1125.0	1103.4	1100.6
25.0	1098.3	1122.3	1139.8	1125.0	1102.8	1080.5	1078.8
27.5	1073.8	1099.7	1117.0	1103.6	1079.5	1055.7	1054.3
30.0	1047.4	1074.4	1092.6	1078.9	1053.8	1028.0	1028.4
32.5	1019.0	1046.9	1066.2	1052.0	1026.1	998.1	999.1
35.0	988.1	1018.2	1038.5	1023.8	996.3	966.6	967.8
37.5	955.8	987.9	1008.7	993.1	963.6	932.5	933.6
40.0	922.0	956.0	977.3	961.4	929.4	895.5	897.4
42.5	886.0	922.4	943.8	926.9	893.2	857.1	859.2
45.0	848.2	887.2	908.6	891.4	855.6	817.3	818.7
47.5	810.6	850.5	872.2	854.5	816.8	775.5	776.3
50.0	771.4	813.3	835.6	817.3	777.0	732.8	733.4
52.5	731.4	775.8	797.8	779.1	736.3	689.4	689.0
55.0	689.2	736.8	759.0	739.9	693.8	644.8	642.7
57.5	645.9	695.7	718.6	699.5	650.3	599.3	596.0
60.0	602.6	654.5	677.9	657.3	606.3	552.7	547.1
62.5	559.1	614.0	637.1	616.0	562.5	505.3	496.9
65.0	516.1	573.6	596.9	575.5	519.1	457.8	445.1
67.5	473.3	533.3	556.7	534.9	476.3	410.7	393.7
70.0	430.3	493.1	516.7	494.5	433.3	363.0	341.1
72.5	388.2	453.1	477.3	454.6	391.1	315.7	288.9
75.0	348.2	414.3	438.7	415.7	350.4	270.3	237.6
77.5	309.7	377.3	401.6	378.1	311.0	226.2	188.0
80.0	272.3	341.4	366.3	341.8	273.6	184.8	140.1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

CANDELA TABULATION - (Cont.)

82.5	237.3	306.9	332.5	307.5	238.7	146.6	94.3
85.0	205.8	275.0	300.8	275.8	206.5	113.6	54.3
87.5	177.6	245.8	271.0	246.6	177.7	86.0	23.1
90.0	153.2	219.5	244.0	219.6	152.6	65.0	5.2
92.5	132.7	195.9	219.5	195.8	131.8	50.2	2.5
95.0	115.1	174.5	197.3	174.6	114.1	39.6	2.5
97.5	100.4	156.0	177.1	155.8	99.1	32.0	2.4
100.0	88.1	139.8	159.2	139.3	86.6	26.3	2.7
102.5	77.4	125.2	143.3	124.5	75.8	22.2	2.5
105.0	68.1	112.4	129.0	111.3	66.4	19.1	2.6
107.5	60.3	100.8	116.0	99.5	58.3	16.7	2.8
110.0	53.4	90.1	104.1	88.9	51.5	14.5	2.7
112.5	47.4	80.4	93.4	79.4	45.6	12.8	2.8
115.0	42.2	72.0	83.6	70.7	40.5	11.3	2.6
117.5	37.8	64.4	75.0	63.1	36.0	10.0	2.6
120.0	33.9	57.7	67.2	56.5	32.1	9.0	2.7
122.5	30.2	51.7	60.2	50.6	28.6	8.1	2.8
125.0	26.7	46.1	53.9	45.1	25.4	7.3	2.9
127.5	23.5	41.0	47.9	40.0	22.4	6.6	2.9
130.0	20.8	36.4	42.4	35.3	19.8	6.1	3.1
132.5	18.3	32.0	37.3	31.0	17.3	5.5	3.0
135.0	15.9	28.1	32.6	27.1	15.2	5.1	3.2
137.5	13.6	24.4	28.3	23.6	13.3	4.7	3.4
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	446.41	N.A.	10.60
0-30	954.40	N.A.	22.70
0-40	1575.52	N.A.	37.50
0-60	2851.25	N.A.	67.80
0-80	3722.83	N.A.	88.60
0-90	3935.56	N.A.	93.60
10-90	3820.9	N.A.	90.90
20-40	1129.11	N.A.	26.90
20-50	1786.97	N.A.	42.50
40-70	1786.15	N.A.	42.50
60-80	871.58	N.A.	20.70
70-80	361.17	N.A.	8.60
80-90	212.73	N.A.	5.10
90-110	190.02	N.A.	4.50
90-120	232.18	N.A.	5.50
90-130	256.59	N.A.	6.10
90-150	268.45	N.A.	6.40
90-180	268.45	N.A.	6.40
110-180	78.43	N.A.	1.90
0-180	4204.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.66
10-20	331.75
20-30	507.99
30-40	621.12
40-50	657.86
50-60	617.87
60-70	510.42
70-80	361.17
80-90	212.73
90-100	119.11
100-110	70.90
110-120	42.16
120-130	24.41
130-140	11.85
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

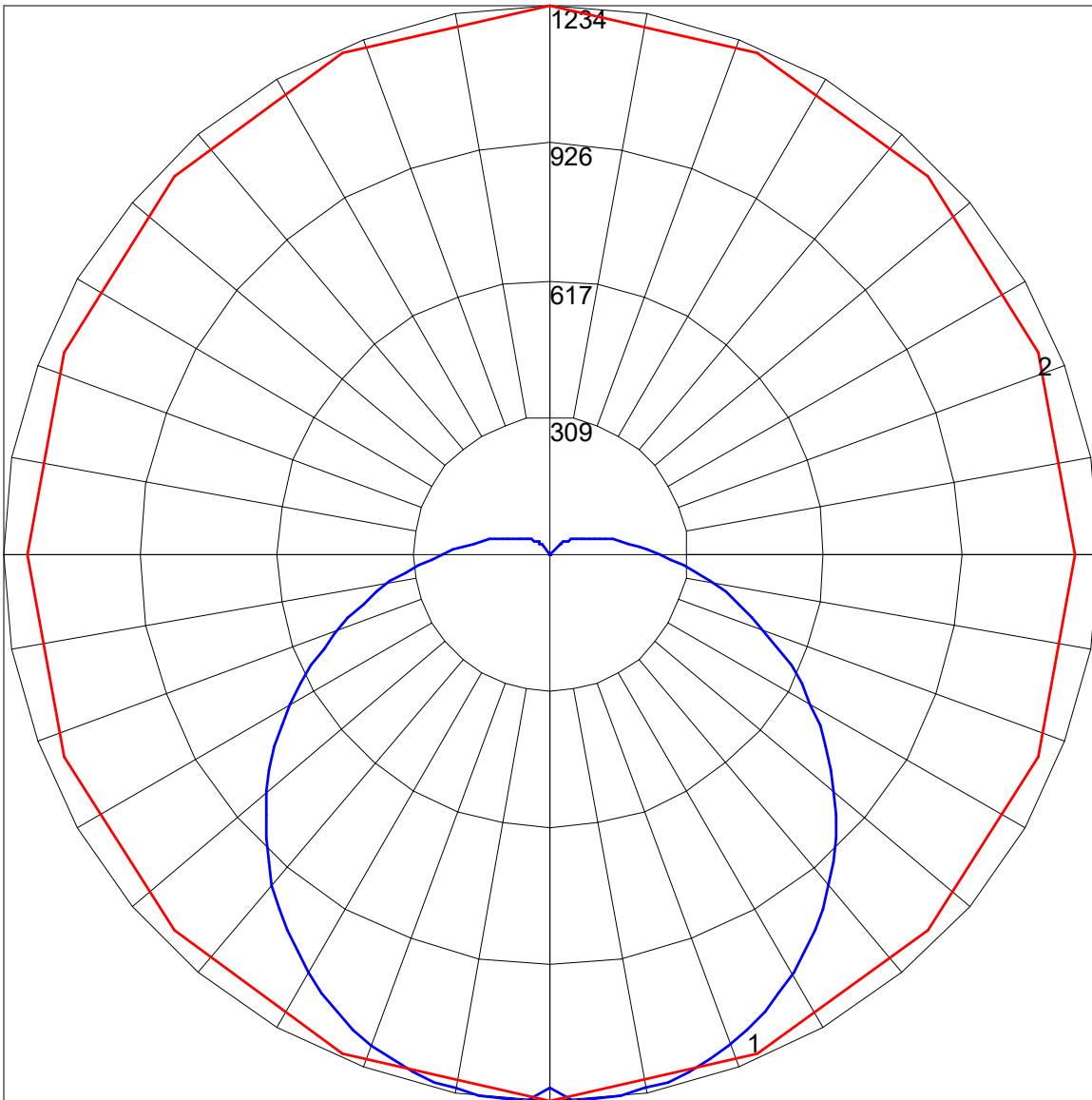
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRCL450750LAJUDXX_IES.IES

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	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	77	75
2	95	86	79	73	92	84	77	71	79	73	69	75	70	66	71	67	64	61
3	87	75	67	60	83	73	65	59	69	62	57	66	60	55	62	57	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	50	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	35	29	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1234 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)