

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P997724

Luminaire Tested: SA2XXRDP-B485DB27-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-B485DB27-4F0-XX-W2A-A
Description: Define 2 Regressed Direct Recessed with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

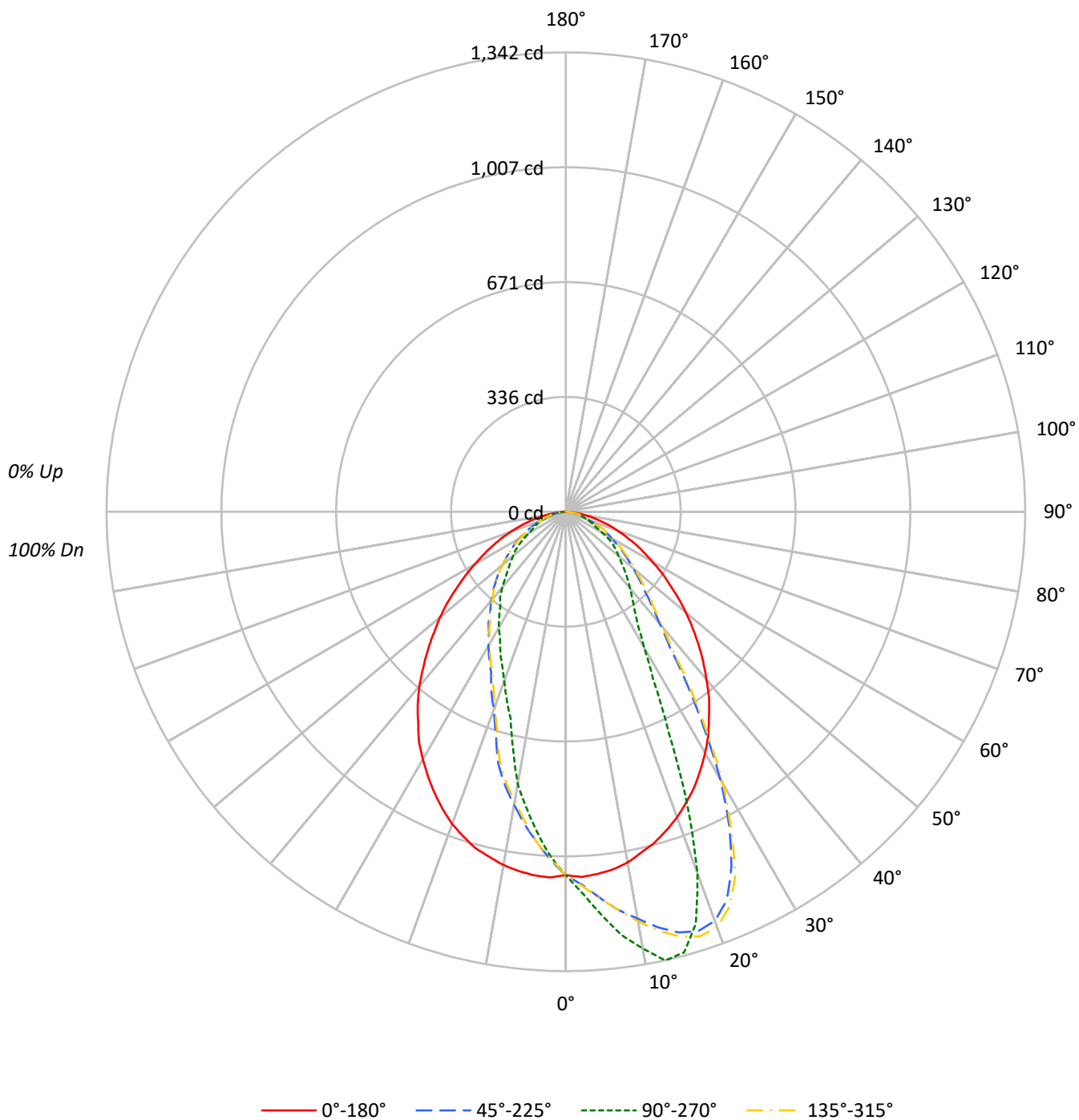
Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16800	16800	16800	16800
5°	16875	18761	16934	14989
10°	16726	20817	16845	12992
15°	16401	21840	16679	10237
20°	16001	18934	16350	8857
25°	15510	12418	15843	7908
30°	14869	8359	15273	7158
35°	14081	6769	14537	6456
40°	13198	6019	13762	5974
45°	12250	5449	12762	5332
50°	11279	4957	11806	4940
55°	10197	4661	10746	4601
60°	9247	3900	9735	3853
65°	8371	3289	8866	3731
70°	7405	3036	7988	3517
75°	6403	2844	6991	3248
80°	5314	2625	5716	2890
85°	4159	2416	4559	2543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 18442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	5.5
10°-20°	281.0	15.3
20°-30°	361.6	19.7
30°-40°	343.1	18.7
40°-50°	294.0	16.0
50°-60°	223.9	12.2
60°-70°	141.2	7.7
70°-80°	70.5	3.8
80°-90°	18.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	743.3	40.5
0°-40°	1086.3	59.2
0°-60°	1604.3	87.5
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1061	1061	1061	1061	1061	
5°	1062	1181	1066	943	1062	101
15°	1001	1333	1018	625	1001	282
25°	888	711	907	453	888	408
35°	729	350	752	334	729	456
45°	547	243	570	238	547	422
55°	370	169	389	167	370	333
65°	224	88	237	100	224	222
75°	105	46	114	53	105	113
85°	23	13	25	14	23	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.9	1072.3	1074.5	1077.5	1084.1	1088.6	1095.2	1096.7	1095.9	1098.9	1090.8
5°	1062.0	1071.6	1080.4	1087.8	1099.6	1107.0	1115.1	1124.7	1126.9	1138.0	1131.3
7.5°	1053.9	1067.9	1080.4	1095.2	1112.9	1122.5	1135.0	1149.8	1156.4	1169.7	1173.4
10°	1040.6	1060.5	1081.9	1097.4	1121.7	1138.7	1150.5	1174.1	1189.6	1209.5	1206.6
12.5°	1019.2	1045.0	1073.8	1099.6	1131.3	1142.4	1164.5	1188.9	1208.8	1227.2	1243.4
15°	1000.8	1030.3	1062.0	1093.7	1129.9	1150.5	1172.6	1204.3	1225.7	1258.2	1272.2
17.5°	975.7	1013.3	1050.9	1086.3	1129.1	1152.7	1180.0	1211.0	1242.7	1273.7	1284.7
20°	949.9	990.5	1031.0	1079.0	1127.6	1150.5	1178.5	1216.9	1247.9	1272.2	1272.2
22.5°	918.9	968.3	1014.8	1060.5	1113.6	1146.8	1175.6	1220.6	1242.7	1247.9	1227.9
25°	888.0	937.4	988.3	1045.0	1105.5	1135.0	1167.5	1209.5	1216.9	1196.2	1144.6
27.5°	851.1	906.4	963.9	1025.1	1088.6	1125.4	1154.9	1183.0	1168.9	1113.6	1033.2
30°	813.5	873.2	938.1	996.4	1073.1	1107.0	1132.1	1140.2	1095.9	1006.0	902.0
32.5°	774.4	832.6	901.2	971.3	1048.7	1081.2	1097.4	1076.0	994.9	881.3	754.5
35°	728.7	794.3	865.8	938.8	1015.5	1039.9	1049.5	997.1	893.1	746.4	620.2
37.5°	687.4	753.0	829.7	904.2	978.7	991.9	982.4	900.5	768.5	623.2	500.0
40°	638.7	708.7	784.0	867.3	928.5	932.2	908.6	802.4	638.7	502.2	426.3
42.5°	593.7	664.5	739.7	824.5	871.0	858.5	826.7	687.4	533.2	432.9	371.7
45°	547.2	614.3	695.5	770.7	803.9	774.4	726.4	578.2	447.7	372.4	325.2
47.5°	502.2	564.9	645.3	717.6	723.5	690.3	633.5	484.5	387.9	327.5	289.1
50°	458.0	520.7	595.9	655.6	649.7	604.0	539.9	421.1	337.0	289.1	257.4
52.5°	413.7	470.5	543.5	590.7	565.7	521.4	458.0	357.0	294.3	252.2	227.9
55°	369.5	422.6	485.3	524.4	484.5	433.7	388.7	306.1	255.2	221.3	202.8
57.5°	332.6	374.7	432.2	455.8	407.8	368.0	328.9	263.3	221.3	196.9	175.5
60°	292.1	330.4	377.6	391.6	342.2	309.8	276.6	222.7	189.5	168.2	154.1
62.5°	257.4	289.1	325.2	325.2	281.7	257.4	232.3	186.6	159.3	142.3	135.7
65°	223.5	246.3	272.1	269.2	232.3	210.9	191.0	154.1	133.5	121.7	115.1
67.5°	190.3	208.0	224.9	214.6	188.1	169.6	151.2	124.6	110.6	102.5	93.7
70°	160.0	174.1	182.9	173.3	146.8	131.3	118.0	100.3	89.2	78.9	73.8
72.5°	134.2	140.1	143.1	131.3	109.2	100.3	90.7	78.2	68.6	63.4	62.0
75°	104.7	109.9	107.7	98.8	80.4	73.8	66.4	57.5	55.3	52.4	50.9
77.5°	81.9	81.9	78.2	70.1	57.5	52.4	49.4	45.0	42.8	42.0	40.6
80°	58.3	57.5	55.3	46.5	39.1	36.1	36.1	33.2	32.5	31.0	31.0
82.5°	38.4	38.4	35.4	28.0	25.8	25.1	24.3	22.9	22.9	22.1	22.1
85°	22.9	21.4	17.7	15.5	14.8	14.8	14.0	13.3	14.0	13.3	13.3
87.5°	10.3	8.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1098.9	1100.4	1102.6	1112.9	1114.4	1117.3	1115.8	1115.8	1116.6	1115.1	1115.8
5°	1146.1	1148.3	1159.4	1171.9	1174.8	1171.9	1175.6	1180.7	1180.7	1180.7	1179.3
7.5°	1190.3	1198.4	1211.0	1229.4	1233.1	1236.8	1243.4	1239.0	1240.5	1247.1	1244.9
10°	1233.1	1244.9	1258.9	1274.4	1282.5	1287.7	1290.6	1297.3	1312.8	1295.1	1301.7
12.5°	1273.7	1290.6	1305.4	1322.3	1328.2	1334.9	1337.1	1343.0	1343.0	1342.3	1347.4
15°	1300.2	1315.7	1329.0	1340.0	1341.5	1340.0	1338.6	1339.3	1341.5	1332.7	1337.8
17.5°	1306.1	1307.6	1312.0	1307.6	1308.3	1292.8	1284.0	1281.8	1261.1	1261.9	1278.8
20°	1277.4	1252.3	1245.6	1221.3	1206.6	1166.7	1165.3	1154.2	1110.7	1124.0	1121.0
22.5°	1198.4	1155.7	1098.9	1070.9	1056.8	1014.8	982.4	959.5	944.0	928.5	921.9
25°	1094.5	1025.1	944.7	889.4	881.3	842.2	782.5	754.5	721.3	711.0	728.7
27.5°	960.2	870.3	779.5	694.7	679.2	643.8	613.6	593.7	555.3	553.1	554.6
30°	778.1	687.4	611.4	556.1	517.7	501.5	481.6	466.8	451.4	457.3	458.7
32.5°	639.4	553.1	482.3	452.8	435.1	424.8	407.8	398.3	391.6	389.4	388.7
35°	508.1	450.6	418.9	390.1	379.8	372.4	359.9	355.5	349.6	350.3	350.3
37.5°	435.1	387.2	363.6	348.8	339.3	335.6	327.5	323.0	319.3	317.9	320.1
40°	375.4	342.2	327.5	314.2	306.1	304.6	300.2	295.0	290.6	291.3	293.5
42.5°	331.9	312.7	295.0	284.7	278.8	276.6	272.9	269.2	269.2	267.0	266.2
45°	297.2	281.7	267.0	257.4	253.7	250.8	246.3	245.6	242.6	243.4	244.1
47.5°	266.2	253.7	242.6	233.1	229.4	228.6	224.2	221.3	221.3	220.5	219.8
50°	238.2	225.7	216.1	210.9	205.8	204.3	203.6	202.8	201.3	201.3	202.1
52.5°	215.4	202.8	195.4	191.0	188.1	186.6	186.6	185.9	185.9	185.9	185.1
55°	190.3	180.0	174.1	172.6	171.1	170.4	169.6	168.2	167.4	168.9	167.4
57.5°	166.7	163.0	157.8	156.4	152.7	152.7	150.5	149.0	147.5	149.0	149.0
60°	148.2	143.1	140.1	135.7	132.8	129.8	126.1	125.4	123.9	123.2	122.4
62.5°	129.1	124.6	117.3	110.6	106.2	103.3	101.8	101.0	101.0	100.3	100.3
65°	107.7	97.4	93.7	91.5	90.7	90.0	88.5	87.8	88.5	87.8	88.5
67.5°	84.1	82.6	80.4	78.9	78.2	77.4	77.4	76.7	76.7	76.7	76.7
70°	73.0	69.3	68.6	67.1	67.1	66.4	66.4	66.4	66.4	65.6	67.1
72.5°	60.5	58.3	57.5	56.8	56.8	56.8	56.1	56.1	56.1	55.3	56.1
75°	49.4	48.7	47.2	47.2	46.5	47.2	46.5	46.5	45.7	46.5	46.5
77.5°	39.8	39.1	38.4	38.4	37.6	37.6	37.6	37.6	37.6	37.6	38.4
80°	30.2	29.5	28.8	29.5	28.8	29.5	28.8	28.8	29.5	28.8	28.8
82.5°	22.1	21.4	21.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
85°	13.3	12.5	12.5	13.3	12.5	13.3	12.5	12.5	12.5	13.3	13.3
87.5°	5.9	6.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1118.8	1113.6	1112.2	1113.6	1112.2	1112.9	1107.7	1088.6	1093.7	1085.6	1090.0
5°	1182.2	1177.8	1168.2	1166.7	1165.3	1163.8	1156.4	1139.4	1132.8	1121.7	1121.0
7.5°	1242.7	1242.7	1235.3	1230.2	1223.5	1218.4	1208.8	1183.7	1173.4	1160.1	1152.7
10°	1302.4	1283.3	1291.4	1286.2	1270.0	1267.0	1249.3	1234.6	1214.7	1201.4	1189.6
12.5°	1345.2	1339.3	1331.9	1327.5	1323.1	1313.5	1301.7	1264.1	1253.8	1227.2	1213.9
15°	1343.7	1340.0	1342.3	1342.3	1340.8	1338.6	1329.0	1301.7	1284.0	1258.2	1235.3
17.5°	1271.5	1281.0	1290.6	1297.3	1312.0	1318.7	1327.5	1311.3	1300.2	1278.1	1253.8
20°	1145.3	1168.9	1197.0	1202.9	1216.1	1255.2	1272.9	1286.9	1291.4	1284.0	1264.1
22.5°	969.8	989.7	1057.6	1056.1	1075.3	1121.7	1173.4	1215.4	1248.6	1267.0	1259.7
25°	759.6	787.7	823.8	851.1	913.8	983.1	1047.3	1114.4	1171.9	1222.8	1235.3
27.5°	574.5	611.4	640.2	676.3	708.0	789.9	872.5	977.2	1044.3	1140.9	1191.1
30°	464.6	481.6	510.4	527.3	542.8	605.5	699.2	802.4	920.4	1031.8	1118.1
32.5°	396.8	408.6	430.0	437.3	453.6	495.6	554.6	649.0	770.7	905.7	1019.2
35°	356.2	368.8	373.2	379.8	393.1	419.6	460.2	528.8	638.7	770.7	906.4
37.5°	321.6	328.2	340.7	345.2	349.6	369.5	396.8	444.7	517.7	626.1	776.6
40°	297.2	300.9	307.5	311.2	314.2	328.2	352.5	385.0	438.8	521.4	660.1
42.5°	271.4	275.8	280.3	284.7	288.4	299.4	314.2	345.2	381.3	444.0	544.3
45°	246.3	249.3	254.4	257.4	262.6	271.4	284.7	306.1	338.5	378.3	459.5
47.5°	223.5	227.2	229.4	233.1	236.7	246.3	258.9	272.9	299.4	338.5	397.5
50°	202.8	207.2	210.2	210.9	213.9	222.7	233.1	248.5	265.5	295.7	347.4
52.5°	188.1	188.8	191.0	194.0	193.2	198.4	208.0	219.8	237.5	261.8	299.4
55°	171.1	173.3	174.8	175.5	175.5	180.0	185.1	196.2	210.2	230.1	261.8
57.5°	149.7	151.9	156.4	157.8	160.0	162.3	164.5	171.8	183.6	202.8	228.6
60°	127.6	129.1	133.5	136.4	137.9	143.8	146.8	152.7	159.3	173.3	197.7
62.5°	102.5	104.0	106.2	109.2	112.1	121.0	128.3	134.2	139.4	149.0	168.9
65°	89.2	90.0	91.5	92.2	92.9	96.6	103.3	111.4	121.0	128.3	140.1
67.5°	77.4	78.2	78.9	80.4	81.1	81.9	84.8	87.0	96.6	106.9	115.8
70°	66.4	67.9	68.6	68.6	69.3	70.8	72.3	75.2	78.2	83.3	94.4
72.5°	56.1	56.8	58.3	58.3	58.3	59.7	61.2	62.7	64.2	67.1	71.5
75°	46.5	47.9	47.9	47.9	48.7	48.7	50.2	51.6	53.1	55.3	56.8
77.5°	38.4	38.4	38.4	38.4	39.1	39.1	39.8	41.3	42.0	42.8	44.3
80°	28.8	29.5	29.5	29.5	30.2	30.2	30.2	31.7	32.5	32.5	33.9
82.5°	21.4	21.4	21.4	22.1	21.4	22.1	22.1	22.9	22.1	22.9	23.6
85°	13.3	13.3	13.3	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.8
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.4	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

CATALOG NUMBER: SA2XXRDP-B485DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1083.4	1079.7	1079.7	1077.5	1077.5	1065.7	1065.7	1069.4	1065.0	1059.8	1052.4
5°	1111.4	1103.3	1101.1	1098.1	1088.6	1073.8	1067.9	1065.7	1056.8	1045.8	1033.2
7.5°	1138.0	1124.7	1118.1	1111.4	1098.9	1078.2	1066.4	1058.3	1045.0	1028.1	1011.9
10°	1163.8	1146.8	1129.9	1121.7	1104.0	1078.2	1061.3	1048.0	1028.8	1006.0	983.1
12.5°	1187.4	1152.0	1149.0	1132.8	1107.0	1077.5	1051.7	1032.5	1008.2	981.6	955.1
15°	1208.0	1171.9	1154.2	1139.4	1105.5	1068.6	1041.4	1017.8	985.3	955.1	922.6
17.5°	1218.4	1179.3	1167.5	1143.1	1108.5	1060.5	1023.7	994.9	959.5	923.4	886.5
20°	1228.7	1183.0	1163.8	1146.8	1099.6	1045.0	1003.7	970.6	931.5	888.7	848.1
22.5°	1233.8	1183.0	1160.1	1136.5	1090.8	1028.1	979.4	940.3	894.6	851.1	802.4
25°	1225.0	1178.5	1151.2	1126.9	1075.3	1007.4	951.4	907.1	858.5	809.0	759.6
27.5°	1202.9	1168.2	1136.5	1111.4	1053.9	980.9	921.9	871.7	821.6	766.3	716.1
30°	1161.6	1146.1	1121.0	1093.0	1030.3	957.3	887.2	835.6	780.3	725.0	672.6
32.5°	1097.4	1110.7	1094.5	1070.1	1002.3	924.8	850.3	798.0	737.5	677.8	629.8
35°	1019.2	1066.4	1057.6	1040.6	972.8	890.2	815.7	752.3	691.8	631.3	583.4
37.5°	933.7	1005.2	1012.6	1002.3	938.8	854.8	772.9	711.0	649.0	587.8	539.1
40°	816.4	926.3	949.9	954.3	903.4	812.0	726.4	666.0	604.8	545.0	486.0
42.5°	708.7	847.4	876.9	895.3	858.5	770.0	683.7	616.6	556.1	502.2	443.2
45°	607.7	752.3	800.2	823.8	807.6	722.0	632.8	570.1	514.8	465.4	408.6
47.5°	503.7	649.0	716.1	753.7	753.7	673.3	584.1	522.2	469.1	427.0	376.9
50°	434.4	555.3	624.7	674.1	687.4	623.9	539.9	479.4	429.2	383.5	345.2
52.5°	370.2	478.6	536.2	587.8	626.1	570.8	490.4	435.9	386.5	343.7	313.4
55°	320.1	401.2	453.6	510.4	553.1	517.0	442.5	389.4	346.6	311.2	285.4
57.5°	272.1	342.9	385.7	435.9	481.6	454.3	394.6	348.8	311.2	280.3	257.4
60°	231.6	289.1	322.3	361.4	418.2	399.0	349.6	307.5	277.3	249.3	230.1
62.5°	196.9	242.6	270.7	298.7	350.3	341.5	303.1	270.7	244.9	221.3	205.0
65°	161.5	199.1	221.3	245.6	286.9	290.6	259.6	236.7	213.1	192.5	177.7
67.5°	130.5	160.0	180.0	200.6	233.8	244.1	222.7	203.6	183.6	166.7	153.4
70°	105.5	126.1	140.9	157.1	184.4	196.9	185.9	172.6	156.4	142.3	130.5
72.5°	83.3	96.6	105.5	118.0	140.1	152.7	151.9	140.1	128.3	118.7	109.2
75°	61.2	71.5	78.9	87.0	104.7	116.5	119.5	114.3	102.5	95.1	87.8
77.5°	46.5	52.4	56.1	62.0	74.5	84.8	89.2	87.8	79.7	73.8	68.6
80°	35.4	36.9	38.4	40.6	50.9	60.5	63.4	62.7	58.3	56.1	50.2
82.5°	25.1	25.8	26.6	27.3	31.0	39.1	42.0	43.5	39.8	37.6	32.5
85°	14.8	15.5	15.5	17.0	17.7	19.9	25.1	25.1	24.3	21.4	20.7
87.5°	7.4	7.4	6.6	6.6	7.4	8.1	9.6	11.1	9.6	8.9	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

CATALOG NUMBER: SA2XXRDP-B485DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1049.5	1050.2	1052.4	1045.8	1035.5	1031.0	1017.8	1015.5	1013.3	1013.3	1015.5
5°	1025.9	1022.9	1023.7	1011.1	996.4	987.5	969.1	972.0	962.4	956.5	958.0
7.5°	1000.1	991.9	991.2	975.0	956.5	940.3	921.1	916.7	907.9	897.5	893.1
10°	967.6	961.7	950.6	932.2	908.6	895.3	869.5	854.0	851.8	836.3	830.4
12.5°	934.4	924.1	913.0	887.2	860.7	839.3	820.1	803.1	791.3	778.1	769.2
15°	896.1	883.5	871.0	843.7	812.7	791.3	762.6	737.5	702.8	675.6	660.1
17.5°	854.0	840.0	823.1	792.8	762.6	733.1	680.0	650.5	626.1	609.9	600.3
20°	810.5	795.0	778.1	747.8	695.5	643.8	614.3	591.5	576.7	560.5	548.7
22.5°	764.8	748.6	730.1	682.9	627.6	591.5	568.6	547.2	525.8	517.0	511.1
25°	722.0	707.3	683.7	619.5	576.0	542.8	517.0	503.0	491.9	480.1	469.1
27.5°	677.8	650.5	617.3	563.5	536.2	502.2	483.8	473.5	454.3	446.2	441.0
30°	624.7	594.4	562.7	524.4	492.7	469.1	452.1	435.1	424.1	416.0	407.1
32.5°	570.8	542.1	522.2	482.3	458.7	434.4	418.2	407.8	391.6	386.5	382.8
35°	524.4	500.0	482.3	449.9	427.8	405.6	393.8	378.3	368.0	358.4	352.5
37.5°	478.6	465.4	446.9	419.6	396.0	378.3	362.1	357.0	342.9	337.8	331.9
40°	446.9	427.0	411.5	387.9	368.0	348.8	338.5	326.7	317.1	309.0	306.8
42.5°	408.6	393.8	385.0	359.2	338.5	327.5	314.9	301.6	294.3	287.6	279.5
45°	379.8	366.5	354.0	333.4	314.9	300.9	289.8	281.0	268.5	265.5	253.0
47.5°	349.6	336.3	326.7	306.1	289.1	275.8	267.7	255.9	245.6	239.0	233.1
50°	319.3	308.3	299.4	281.7	267.0	253.0	241.9	230.1	225.7	214.6	210.9
52.5°	290.6	283.2	273.6	256.7	241.9	230.1	218.3	208.7	202.1	196.2	191.8
55°	266.2	254.4	250.0	231.6	219.0	206.5	196.2	190.3	182.2	178.5	174.8
57.5°	239.0	232.3	224.9	210.9	196.9	185.1	177.7	168.9	164.5	160.0	157.1
60°	215.4	205.8	199.9	188.1	175.5	164.5	157.8	151.2	145.3	141.6	135.7
62.5°	188.1	180.7	177.0	164.5	154.1	143.8	137.9	131.3	126.9	120.2	112.8
65°	164.5	158.6	154.1	143.8	134.2	124.6	118.7	110.6	104.7	101.0	100.3
67.5°	143.8	139.4	132.8	123.2	113.6	106.2	99.6	92.9	92.2	90.7	90.7
70°	121.0	116.5	112.8	102.5	94.4	86.3	84.8	82.6	80.4	79.7	78.2
72.5°	101.0	97.4	92.9	84.1	76.0	73.8	72.3	70.8	68.6	67.9	67.1
75°	81.9	76.7	73.8	65.6	63.4	62.0	60.5	58.3	56.8	56.1	54.6
77.5°	62.7	57.5	57.5	53.1	51.6	49.4	47.9	46.5	45.7	44.3	44.3
80°	44.3	44.3	42.8	40.6	38.4	37.6	35.4	34.7	33.9	34.7	33.2
82.5°	32.5	29.5	29.5	28.0	26.6	25.8	24.3	24.3	23.6	23.6	23.6
85°	18.4	18.4	17.7	16.2	15.5	15.5	14.8	14.8	14.0	14.0	13.3
87.5°	7.4	6.6	7.4	6.6	6.6	5.9	5.9	5.9	5.2	5.9	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

CATALOG NUMBER: SA2XXRDP-B485DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1015.5	1014.1	1009.6	1011.1	1008.9	1008.9	1007.4	1007.4	1007.4	1011.1	1008.9
5°	960.2	955.1	949.9	947.7	945.5	943.3	943.3	942.5	949.2	947.7	953.6
7.5°	891.6	890.2	879.8	879.8	876.2	874.7	878.4	879.1	879.8	881.3	885.0
10°	830.4	826.7	812.0	813.5	811.3	808.3	810.5	809.0	814.2	815.7	814.2
12.5°	758.2	751.5	735.3	727.2	718.3	711.7	719.8	713.9	734.6	740.5	756.7
15°	662.3	649.7	638.7	638.7	630.6	624.7	628.4	635.0	639.4	646.1	649.0
17.5°	598.1	593.0	584.1	578.9	576.7	574.5	574.5	577.5	587.1	586.3	592.2
20°	543.5	540.6	536.2	529.5	527.3	525.8	525.8	525.8	532.5	538.4	542.1
22.5°	505.9	503.7	500.8	491.9	487.5	486.0	489.7	491.9	497.1	501.5	505.2
25°	468.3	463.2	458.0	455.0	452.8	452.8	454.3	455.0	457.3	459.5	463.9
27.5°	437.3	433.7	426.3	418.2	418.2	416.0	417.4	418.9	424.1	431.4	435.1
30°	402.7	401.9	399.0	396.0	393.1	391.6	394.6	396.8	397.5	401.2	401.2
32.5°	377.6	372.4	367.3	364.3	362.9	362.1	362.9	365.8	365.8	370.2	375.4
35°	352.5	349.6	344.4	339.3	337.8	334.1	337.0	340.0	345.2	347.4	349.6
37.5°	325.2	321.6	319.3	317.9	314.9	315.7	313.4	317.9	322.3	321.6	323.0
40°	304.6	298.0	291.3	290.6	289.8	289.1	289.1	289.8	292.8	295.7	300.2
42.5°	278.0	275.8	269.9	264.0	262.6	261.1	259.6	262.6	268.5	273.6	275.8
45°	250.8	247.8	246.3	241.9	239.0	238.2	236.7	240.4	245.6	247.8	249.3
47.5°	225.7	224.9	220.5	221.3	219.0	219.8	219.0	221.3	221.3	223.5	224.9
50°	208.7	206.5	204.3	202.8	200.6	200.6	199.9	200.6	203.6	206.5	205.8
52.5°	191.8	188.1	187.3	186.6	185.1	186.6	184.4	185.1	188.1	189.5	188.8
55°	171.8	171.1	169.6	168.2	167.4	166.7	166.7	166.7	169.6	171.8	172.6
57.5°	156.4	152.7	149.7	149.7	146.8	146.0	147.5	148.2	150.5	151.9	153.4
60°	135.0	133.5	129.1	126.9	122.4	121.7	121.7	124.6	128.3	133.5	135.0
62.5°	112.1	109.9	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.9	109.9
65°	99.6	100.3	99.6	98.8	99.6	99.6	98.8	98.8	98.8	99.6	100.3
67.5°	89.2	88.5	89.2	88.5	87.8	87.8	87.0	87.8	88.5	89.2	89.2
70°	77.4	77.4	76.7	77.4	76.7	76.0	75.2	75.2	76.7	77.4	77.4
72.5°	66.4	66.4	65.6	65.6	64.2	64.2	64.9	64.2	64.2	66.4	66.4
75°	55.3	54.6	53.8	53.8	53.1	53.1	53.1	52.4	53.8	53.8	54.6
77.5°	43.5	43.5	43.5	42.8	42.8	42.0	42.0	42.8	42.8	42.8	43.5
80°	33.2	33.2	33.2	32.5	31.7	31.7	31.7	31.7	31.7	32.5	31.7
82.5°	22.9	22.9	22.9	22.9	22.9	22.1	22.1	22.1	22.9	22.9	22.1
85°	14.0	13.3	14.0	14.0	13.3	14.0	13.3	13.3	12.5	12.5	13.3
87.5°	5.9	5.2	4.4	4.4	5.2	4.4	4.4	4.4	5.2	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

CATALOG NUMBER: SA2XXRDP-B485DB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1011.1	1014.8	1013.3	1005.2	1013.3	1015.5	1020.0	1024.4	1027.3	1031.8	1035.5
5°	947.7	955.1	959.5	955.1	969.8	972.0	982.4	988.3	997.1	1004.5	1010.4
7.5°	888.0	893.9	902.7	904.2	913.0	923.4	938.1	952.9	966.9	974.2	980.9
10°	823.8	834.1	847.4	844.4	857.7	873.9	889.4	913.0	924.8	938.1	949.9
12.5°	759.6	766.3	784.0	789.9	809.0	821.6	843.0	857.7	887.2	902.7	913.0
15°	647.5	674.8	696.9	723.5	748.6	772.2	791.3	817.9	843.7	855.5	872.5
17.5°	596.6	609.2	622.5	635.7	668.2	710.2	744.1	772.9	795.0	810.5	830.4
20°	543.5	556.1	570.8	583.4	603.3	633.5	675.6	725.0	751.5	767.7	786.9
22.5°	505.9	517.7	527.3	538.4	553.9	576.0	607.7	668.9	704.3	724.2	741.2
25°	465.4	480.1	490.4	498.6	511.1	535.4	561.2	595.9	659.3	674.8	698.4
27.5°	437.3	441.8	453.6	466.1	478.6	491.9	518.5	548.0	590.7	624.7	653.4
30°	404.2	415.2	426.3	431.4	442.5	461.7	477.9	509.6	542.8	569.4	604.0
32.5°	379.1	385.7	393.1	405.6	416.0	429.2	445.5	472.0	500.0	517.0	543.5
35°	351.1	355.5	371.0	376.1	386.5	399.7	416.0	436.6	466.8	480.1	499.3
37.5°	324.5	334.8	339.3	351.1	360.6	373.9	385.7	409.3	429.2	444.7	462.4
40°	303.9	308.3	316.4	326.7	334.8	345.2	359.9	376.9	398.3	410.8	426.3
42.5°	278.8	282.5	292.8	298.7	312.0	321.6	330.4	351.1	370.2	379.8	395.3
45°	251.5	260.3	267.0	278.8	286.2	298.0	309.0	323.8	341.5	352.5	361.4
47.5°	227.9	236.7	243.4	254.4	266.2	271.4	283.2	298.7	314.9	323.8	336.3
50°	208.7	211.7	224.2	229.4	241.9	252.2	260.3	273.6	291.3	296.5	306.8
52.5°	190.3	192.5	200.6	207.2	218.3	227.2	237.5	250.0	264.8	272.9	281.0
55°	174.1	175.5	179.2	186.6	194.0	205.0	214.6	226.4	239.0	247.8	255.2
57.5°	155.6	158.6	161.5	165.9	173.3	183.6	194.0	205.0	215.4	221.3	230.8
60°	134.2	138.7	143.8	149.0	154.1	161.5	173.3	183.6	193.2	198.4	205.8
62.5°	111.4	120.2	124.6	130.5	135.0	141.6	150.5	162.3	168.9	175.5	181.4
65°	100.3	101.0	101.8	107.7	115.8	122.4	130.5	139.4	149.7	154.1	158.6
67.5°	89.2	90.0	91.5	92.2	95.1	102.5	111.4	121.0	129.1	132.0	136.4
70°	78.2	78.2	81.1	81.9	82.6	83.3	90.7	100.3	107.7	111.4	116.5
72.5°	66.4	67.1	68.6	69.3	70.8	72.3	74.5	79.7	88.5	92.2	98.1
75°	54.6	55.3	56.1	56.8	59.0	59.7	62.0	64.9	68.6	73.0	76.7
77.5°	43.5	43.5	44.3	45.7	47.2	47.9	50.2	51.6	53.1	55.3	58.3
80°	32.5	33.2	33.2	34.7	34.7	35.4	36.1	38.4	39.8	41.3	42.8
82.5°	22.1	23.6	23.6	23.6	24.3	25.1	25.8	25.8	27.3	28.0	30.2
85°	13.3	14.0	14.0	14.0	13.3	14.8	14.8	15.5	15.5	15.5	16.2
87.5°	5.2	4.4	5.2	5.2	5.2	5.9	5.2	5.2	5.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1061.3	1061.3	1061.3	1061.3
2.5°	1042.1	1039.9	1053.2	1067.9
5°	1020.7	1024.4	1041.4	1062.0
7.5°	998.6	1006.7	1026.6	1053.9
10°	967.6	982.4	1012.6	1040.6
12.5°	937.4	957.3	986.0	1019.2
15°	903.4	925.6	961.0	1000.8
17.5°	865.8	890.9	932.2	975.7
20°	826.0	859.2	902.7	949.9
22.5°	781.8	821.6	866.6	918.9
25°	739.0	782.5	827.5	888.0
27.5°	696.9	739.7	789.9	851.1
30°	654.9	694.0	747.8	813.5
32.5°	609.9	650.5	707.3	774.4
35°	568.6	609.2	662.3	728.7
37.5°	524.4	567.9	618.8	687.4
40°	472.7	523.6	573.0	638.7
42.5°	430.0	483.8	531.7	593.7
45°	396.0	446.9	486.8	547.2
47.5°	364.3	405.6	446.2	502.2
50°	334.1	365.8	407.8	458.0
52.5°	303.1	330.4	366.5	413.7
55°	275.1	300.9	333.4	369.5
57.5°	249.3	267.7	300.2	332.6
60°	220.5	239.7	264.8	292.1
62.5°	196.2	210.9	234.5	257.4
65°	170.4	184.4	202.1	223.5
67.5°	146.8	159.3	173.3	190.3
70°	125.4	135.0	145.3	160.0
72.5°	102.5	112.8	122.4	134.2
75°	84.1	88.5	96.6	104.7
77.5°	64.9	70.8	75.2	81.9
80°	46.5	51.6	53.1	58.3
82.5°	31.0	33.9	36.9	38.4
85°	17.7	19.2	22.1	22.9
87.5°	6.6	7.4	8.9	10.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P997724

CATALOG NUMBER: SA2XXRDP-B485DB27-4F0-XX-W2A-A

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.84	22.29	21.20	22.60	22.92	15.25	16.71	15.62	17.02	17.33
	3H	22.17	23.47	22.55	23.79	24.16	16.38	17.68	16.76	18.01	18.37
	4H	22.59	23.81	22.99	24.16	24.54	16.84	18.06	17.24	18.41	18.79
	6H	22.87	23.99	23.28	24.36	24.75	17.22	18.34	17.63	18.71	19.10
	8H	22.94	24.01	23.37	24.40	24.80	17.34	18.41	17.77	18.80	19.20
	12H	22.98	24.00	23.41	24.38	24.81	17.43	18.45	17.86	18.83	19.26
4H	2H	20.81	22.03	21.22	22.38	22.76	15.94	17.15	16.34	17.50	17.88
	3H	22.26	23.27	22.67	23.67	24.07	17.23	18.23	17.64	18.64	19.04
	4H	22.76	23.67	23.20	24.08	24.52	17.79	18.69	18.22	19.11	19.55
	6H	23.14	23.92	23.60	24.37	24.83	18.27	19.05	18.73	19.50	19.96
	8H	23.25	23.98	23.72	24.43	24.90	18.43	19.16	18.90	19.61	20.08
	12H	23.33	23.98	23.81	24.46	24.93	18.55	19.21	19.04	19.69	20.16
8H	4H	22.75	23.48	23.22	23.93	24.40	18.11	18.84	18.57	19.28	19.75
	6H	23.17	23.77	23.67	24.27	24.74	18.69	19.29	19.19	19.79	20.26
	8H	23.32	23.86	23.83	24.37	24.86	18.92	19.46	19.44	19.97	20.46
	12H	23.43	23.91	23.94	24.40	24.97	19.11	19.59	19.62	20.08	20.65
12H	4H	22.73	23.38	23.21	23.86	24.33	18.14	18.79	18.62	19.27	19.75
	6H	23.15	23.69	23.66	24.20	24.69	18.75	19.29	19.27	19.80	20.29
	8H	23.32	23.80	23.83	24.29	24.86	19.03	19.51	19.55	20.00	20.57