

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: P997728

Luminaire Tested: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997728
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-B485DB2750-4F0-XX-W2A-A_3500K
Description: Define 2 Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

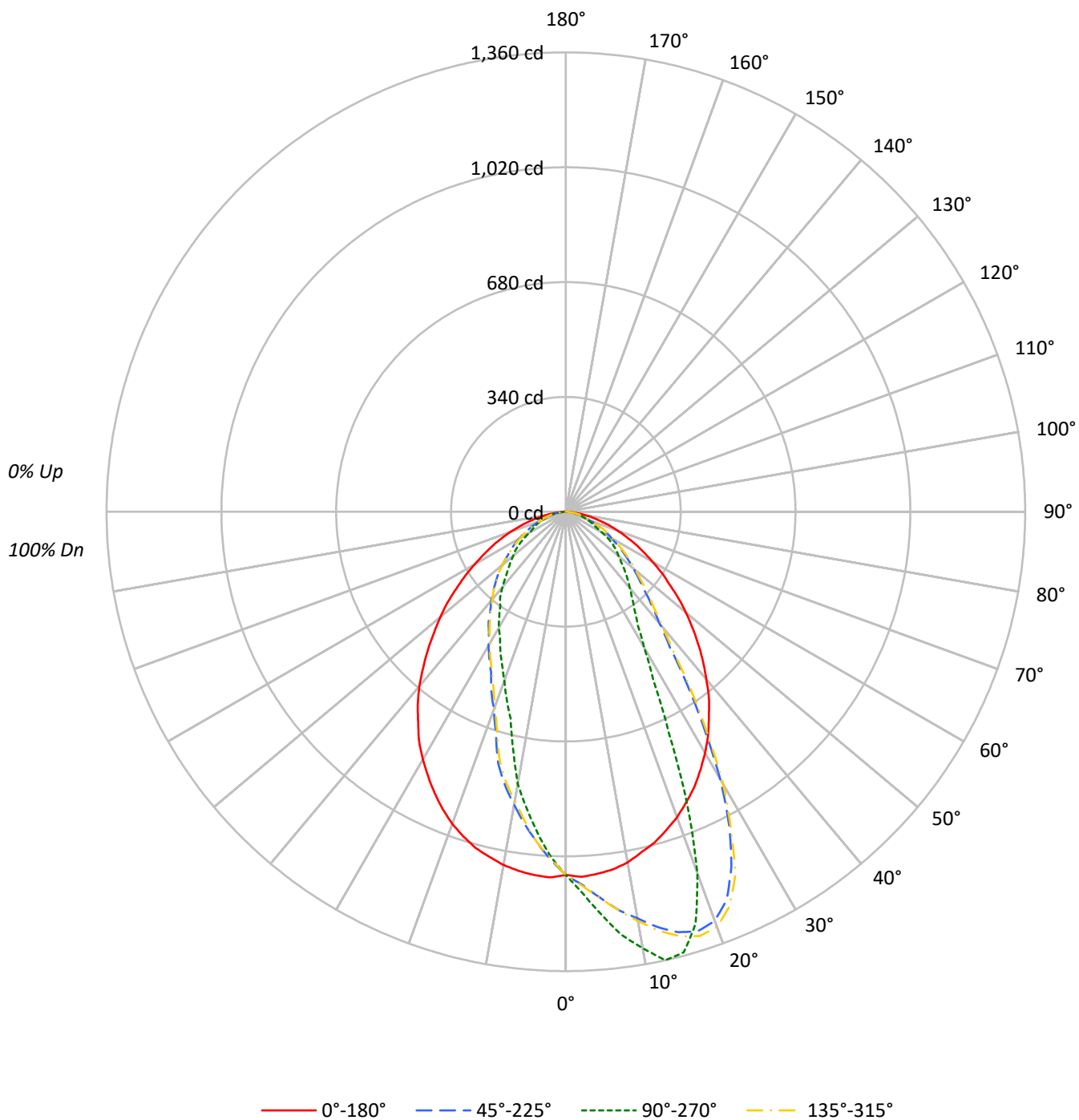
Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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°	17020	17020	17020	17020
5°	17096	19007	17155	15184
10°	16945	21088	17065	13163
15°	16615	22125	16897	10370
20°	16210	19182	16564	8973
25°	15712	12581	16051	8013
30°	15063	8466	15472	7251
35°	14265	6858	14727	6541
40°	13369	6098	13942	6052
45°	12411	5520	12928	5402
50°	11426	5024	11958	5004
55°	10330	4722	10887	4661
60°	9368	3951	9865	3904
65°	8480	3330	8982	3779
70°	7502	3078	8090	3564
75°	6489	2881	7082	3290
80°	5378	2653	5788	2926
85°	4214	2434	4613	2579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 18683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	5.5
10°-20°	284.7	15.3
20°-30°	366.3	19.7
30°-40°	347.6	18.7
40°-50°	297.9	16.0
50°-60°	226.8	12.2
60°-70°	143.1	7.7
70°-80°	71.4	3.8
80°-90°	18.3	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°	753.0	40.5
0°-40°	1100.5	59.2
0°-60°	1625.2	87.5
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1076	1196	1080	956	1076	102
15°	1014	1350	1031	633	1014	285
25°	900	720	919	459	900	413
35°	738	355	762	338	738	462
45°	554	247	578	241	554	428
55°	374	171	394	169	374	337
65°	226	89	240	101	226	225
75°	106	47	116	54	106	115
85°	23	13	25	14	23	28
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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1081.9	1086.4	1088.6	1091.6	1098.3	1102.8	1109.5	1111.0	1110.3	1113.3	1105.0
5°	1075.9	1085.6	1094.6	1102.1	1114.0	1121.5	1129.7	1139.4	1141.7	1152.9	1146.1
7.5°	1067.7	1081.9	1094.6	1109.5	1127.5	1137.2	1149.9	1164.8	1171.5	1185.0	1188.7
10°	1054.2	1074.4	1096.1	1111.8	1136.4	1153.6	1165.6	1189.5	1205.2	1225.3	1222.3
12.5°	1032.6	1058.7	1087.9	1114.0	1146.1	1157.3	1179.8	1204.4	1224.6	1243.3	1259.7
15°	1013.9	1043.8	1075.9	1108.0	1144.6	1165.6	1188.0	1220.1	1241.8	1274.6	1288.8
17.5°	988.5	1026.6	1064.7	1100.6	1143.9	1167.8	1195.4	1226.8	1259.0	1290.3	1301.5
20°	962.3	1003.4	1044.5	1093.1	1142.4	1165.6	1194.0	1232.8	1264.2	1288.8	1288.8
22.5°	931.0	981.0	1028.1	1074.4	1128.2	1161.8	1191.0	1236.5	1259.0	1264.2	1244.0
25°	899.6	949.6	1001.2	1058.7	1120.0	1149.9	1182.7	1225.3	1232.8	1211.9	1159.6
27.5°	862.2	918.3	976.5	1038.5	1102.8	1140.2	1170.0	1198.4	1184.2	1128.2	1046.8
30°	824.1	884.6	950.4	1009.4	1087.1	1121.5	1146.9	1155.1	1110.3	1019.1	913.8
32.5°	784.5	843.5	913.0	984.0	1062.5	1095.3	1111.8	1090.1	1007.9	892.8	764.3
35°	738.2	804.7	877.2	951.1	1028.8	1053.5	1063.2	1010.2	904.8	756.1	628.4
37.5°	696.3	762.8	840.5	916.0	991.5	1004.9	995.2	912.3	778.5	631.3	506.6
40°	647.0	718.0	794.2	878.7	940.7	944.4	920.5	812.9	647.0	508.8	431.9
42.5°	601.5	673.2	749.4	835.3	882.4	869.7	837.6	696.3	540.2	438.6	376.6
45°	554.4	622.4	704.6	780.8	814.4	784.5	735.9	585.8	453.5	377.3	329.5
47.5°	508.8	572.3	653.8	727.0	733.0	699.3	641.8	490.9	393.0	331.7	292.9
50°	464.0	527.5	603.7	664.2	658.2	611.9	546.9	426.6	341.4	292.9	260.8
52.5°	419.2	476.7	550.7	598.5	573.1	528.2	464.0	361.6	298.1	255.5	230.9
55°	374.3	428.1	491.6	531.2	490.9	439.3	393.8	310.1	258.5	224.1	205.5
57.5°	337.0	379.6	437.8	461.7	413.2	372.8	333.2	266.7	224.1	199.5	177.8
60°	295.9	334.7	382.5	396.7	346.7	313.8	280.2	225.6	192.0	170.4	156.2
62.5°	260.8	292.9	329.5	329.5	285.4	260.8	235.4	189.0	161.4	144.2	137.5
65°	226.4	249.5	275.7	272.7	235.4	213.7	193.5	156.2	135.2	123.3	116.6
67.5°	192.8	210.7	227.9	217.4	190.5	171.8	153.2	126.3	112.1	103.9	94.9
70°	162.1	176.3	185.3	175.6	148.7	133.0	119.5	101.6	90.4	79.9	74.7
72.5°	136.0	142.0	144.9	133.0	110.6	101.6	91.9	79.2	69.5	64.3	62.8
75°	106.1	111.3	109.1	100.1	81.4	74.7	67.2	58.3	56.0	53.0	51.6
77.5°	82.9	82.9	79.2	71.0	58.3	53.0	50.1	45.6	43.3	42.6	41.1
80°	59.0	58.3	56.0	47.1	39.6	36.6	36.6	33.6	32.9	31.4	31.4
82.5°	38.9	38.9	35.9	28.4	26.2	25.4	24.7	23.2	23.2	22.4	22.4
85°	23.2	21.7	17.9	15.7	14.9	14.9	14.2	13.4	14.2	13.4	13.4
87.5°	10.5	8.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1113.3	1114.8	1117.0	1127.5	1128.9	1131.9	1130.4	1130.4	1131.2	1129.7	1130.4
5°	1161.1	1163.3	1174.5	1187.2	1190.2	1187.2	1191.0	1196.2	1196.2	1196.2	1194.7
7.5°	1205.9	1214.1	1226.8	1245.5	1249.2	1253.0	1259.7	1255.2	1256.7	1263.4	1261.2
10°	1249.2	1261.2	1275.4	1291.1	1299.3	1304.5	1307.5	1314.2	1329.9	1312.0	1318.7
12.5°	1290.3	1307.5	1322.5	1339.6	1345.6	1352.3	1354.6	1360.6	1360.6	1359.8	1365.0
15°	1317.2	1332.9	1346.4	1357.6	1359.1	1357.6	1356.1	1356.8	1359.1	1350.1	1355.3
17.5°	1323.2	1324.7	1329.2	1324.7	1325.5	1309.8	1300.8	1298.6	1277.6	1278.4	1295.6
20°	1294.1	1268.7	1261.9	1237.3	1222.3	1182.0	1180.5	1169.3	1125.2	1138.7	1135.7
22.5°	1214.1	1170.8	1113.3	1084.9	1070.7	1028.1	995.2	972.0	956.4	940.7	933.9
25°	1108.8	1038.5	957.1	901.1	892.8	853.2	792.7	764.3	730.7	720.3	738.2
27.5°	972.8	881.6	789.7	703.8	688.1	652.3	621.6	601.5	562.6	560.4	561.9
30°	788.2	696.3	619.4	563.4	524.5	508.1	487.9	472.9	457.3	463.2	464.7
32.5°	647.8	560.4	488.6	458.8	440.8	430.4	413.2	403.5	396.7	394.5	393.8
35°	514.8	456.5	424.4	395.2	384.8	377.3	364.6	360.1	354.2	354.9	354.9
37.5°	440.8	392.3	368.3	353.4	343.7	340.0	331.7	327.3	323.5	322.0	324.3
40°	380.3	346.7	331.7	318.3	310.1	308.6	304.1	298.9	294.4	295.1	297.4
42.5°	336.2	316.8	298.9	288.4	282.4	280.2	276.4	272.7	272.7	270.5	269.7
45°	301.1	285.4	270.5	260.8	257.0	254.0	249.5	248.8	245.8	246.6	247.3
47.5°	269.7	257.0	245.8	236.1	232.4	231.6	227.1	224.1	224.1	223.4	222.7
50°	241.3	228.6	218.9	213.7	208.5	207.0	206.2	205.5	204.0	204.0	204.7
52.5°	218.2	205.5	198.0	193.5	190.5	189.0	189.0	188.3	188.3	188.3	187.5
55°	192.8	182.3	176.3	174.8	173.3	172.6	171.8	170.4	169.6	171.1	169.6
57.5°	168.9	165.1	159.9	158.4	154.7	154.7	152.4	150.9	149.4	150.9	150.9
60°	150.2	144.9	142.0	137.5	134.5	131.5	127.8	127.0	125.5	124.8	124.0
62.5°	130.8	126.3	118.8	112.1	107.6	104.6	103.1	102.4	102.4	101.6	101.6
65°	109.1	98.6	94.9	92.6	91.9	91.2	89.7	88.9	89.7	88.9	89.7
67.5°	85.2	83.7	81.4	79.9	79.2	78.5	78.5	77.7	77.7	77.7	77.7
70°	74.0	70.2	69.5	68.0	68.0	67.2	67.2	67.2	67.2	66.5	68.0
72.5°	61.3	59.0	58.3	57.5	57.5	57.5	56.8	56.8	56.8	56.0	56.8
75°	50.1	49.3	47.8	47.8	47.1	47.8	47.1	47.1	46.3	47.1	47.1
77.5°	40.3	39.6	38.9	38.9	38.1	38.1	38.1	38.1	38.1	38.1	38.9
80°	30.6	29.9	29.1	29.9	29.1	29.9	29.1	29.1	29.9	29.1	29.1
82.5°	22.4	21.7	21.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
85°	13.4	12.7	12.7	13.4	12.7	13.4	12.7	12.7	12.7	13.4	13.4
87.5°	6.0	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7
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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1133.4	1128.2	1126.7	1128.2	1126.7	1127.5	1122.2	1102.8	1108.0	1099.8	1104.3
5°	1197.7	1193.2	1183.5	1182.0	1180.5	1179.0	1171.5	1154.4	1147.6	1136.4	1135.7
7.5°	1259.0	1259.0	1251.5	1246.3	1239.5	1234.3	1224.6	1199.2	1188.7	1175.3	1167.8
10°	1319.5	1300.0	1308.3	1303.0	1286.6	1283.6	1265.7	1250.7	1230.6	1217.1	1205.2
12.5°	1362.8	1356.8	1349.4	1344.9	1340.4	1330.7	1318.7	1280.6	1270.2	1243.3	1229.8
15°	1361.3	1357.6	1359.8	1359.8	1358.3	1356.1	1346.4	1318.7	1300.8	1274.6	1251.5
17.5°	1288.1	1297.8	1307.5	1314.2	1329.2	1335.9	1344.9	1328.4	1317.2	1294.8	1270.2
20°	1160.3	1184.2	1212.6	1218.6	1232.1	1271.7	1289.6	1303.8	1308.3	1300.8	1280.6
22.5°	982.5	1002.7	1071.4	1069.9	1089.4	1136.4	1188.7	1231.3	1264.9	1283.6	1276.1
25°	769.6	798.0	834.6	862.2	925.7	996.0	1061.0	1128.9	1187.2	1238.8	1251.5
27.5°	582.0	619.4	648.5	685.1	717.3	800.2	883.9	990.0	1058.0	1155.8	1206.7
30°	470.7	487.9	517.0	534.2	549.9	613.4	708.3	812.9	932.4	1045.3	1132.7
32.5°	402.0	413.9	435.6	443.1	459.5	502.1	561.9	657.5	780.8	917.5	1032.6
35°	360.9	373.6	378.1	384.8	398.2	425.1	466.2	535.7	647.0	780.8	918.3
37.5°	325.8	332.5	345.2	349.7	354.2	374.3	402.0	450.5	524.5	634.3	786.8
40°	301.1	304.8	311.6	315.3	318.3	332.5	357.1	390.0	444.6	528.2	668.7
42.5°	275.0	279.4	283.9	288.4	292.1	303.3	318.3	349.7	386.3	449.8	551.4
45°	249.5	252.5	257.8	260.8	266.0	275.0	288.4	310.1	342.9	383.3	465.5
47.5°	226.4	230.1	232.4	236.1	239.8	249.5	262.3	276.4	303.3	342.9	402.7
50°	205.5	210.0	212.9	213.7	216.7	225.6	236.1	251.8	269.0	299.6	351.9
52.5°	190.5	191.3	193.5	196.5	195.8	201.0	210.7	222.7	240.6	265.2	303.3
55°	173.3	175.6	177.1	177.8	177.8	182.3	187.5	198.7	212.9	233.1	265.2
57.5°	151.7	153.9	158.4	159.9	162.1	164.4	166.6	174.1	186.0	205.5	231.6
60°	129.3	130.8	135.2	138.2	139.7	145.7	148.7	154.7	161.4	175.6	200.2
62.5°	103.9	105.3	107.6	110.6	113.6	122.5	130.0	136.0	141.2	150.9	171.1
65°	90.4	91.2	92.6	93.4	94.1	97.9	104.6	112.8	122.5	130.0	142.0
67.5°	78.5	79.2	79.9	81.4	82.2	82.9	85.9	88.2	97.9	108.3	117.3
70°	67.2	68.7	69.5	69.5	70.2	71.7	73.2	76.2	79.2	84.4	95.6
72.5°	56.8	57.5	59.0	59.0	59.0	60.5	62.0	63.5	65.0	68.0	72.5
75°	47.1	48.6	48.6	48.6	49.3	49.3	50.8	52.3	53.8	56.0	57.5
77.5°	38.9	38.9	38.9	38.9	39.6	39.6	40.3	41.8	42.6	43.3	44.8
80°	29.1	29.9	29.9	29.9	30.6	30.6	30.6	32.1	32.9	32.9	34.4
82.5°	21.7	21.7	21.7	22.4	21.7	22.4	22.4	23.2	22.4	23.2	23.9
85°	13.4	13.4	13.4	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.9
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.5	6.7	6.7
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: P997728

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1097.6	1093.8	1093.8	1091.6	1091.6	1079.6	1079.6	1083.4	1078.9	1073.7	1066.2
5°	1126.0	1117.7	1115.5	1112.5	1102.8	1087.9	1081.9	1079.6	1070.7	1059.5	1046.8
7.5°	1152.9	1139.4	1132.7	1126.0	1113.3	1092.3	1080.4	1072.2	1058.7	1041.5	1025.1
10°	1179.0	1161.8	1144.6	1136.4	1118.5	1092.3	1075.2	1061.7	1042.3	1019.1	996.0
12.5°	1202.9	1167.1	1164.1	1147.6	1121.5	1091.6	1065.4	1046.0	1021.4	994.5	967.6
15°	1223.8	1187.2	1169.3	1154.4	1120.0	1082.6	1055.0	1031.1	998.2	967.6	934.7
17.5°	1234.3	1194.7	1182.7	1158.1	1123.0	1074.4	1037.0	1007.9	972.0	935.4	898.1
20°	1244.8	1198.4	1179.0	1161.8	1114.0	1058.7	1016.9	983.3	943.7	900.3	859.2
22.5°	1250.0	1198.4	1175.3	1151.4	1105.0	1041.5	992.2	952.6	906.3	862.2	812.9
25°	1241.0	1194.0	1166.3	1141.7	1089.4	1020.6	963.8	919.0	869.7	819.6	769.6
27.5°	1218.6	1183.5	1151.4	1126.0	1067.7	993.7	933.9	883.1	832.3	776.3	725.5
30°	1176.8	1161.1	1135.7	1107.3	1043.8	969.8	898.8	846.5	790.5	734.5	681.4
32.5°	1111.8	1125.2	1108.8	1084.1	1015.4	936.9	861.5	808.4	747.2	686.6	638.1
35°	1032.6	1080.4	1071.4	1054.2	985.5	901.8	826.4	762.1	700.8	639.6	591.0
37.5°	945.9	1018.4	1025.8	1015.4	951.1	866.0	783.0	720.3	657.5	595.5	546.2
40°	827.1	938.4	962.3	966.8	915.3	822.6	735.9	674.7	612.7	552.1	492.4
42.5°	718.0	858.5	888.4	907.0	869.7	780.0	692.6	624.6	563.4	508.8	449.0
45°	615.7	762.1	810.7	834.6	818.1	731.5	641.1	577.5	521.5	471.5	413.9
47.5°	510.3	657.5	725.5	763.6	763.6	682.2	591.7	529.0	475.2	432.6	381.8
50°	440.1	562.6	632.8	682.9	696.3	632.1	546.9	485.6	434.8	388.5	349.7
52.5°	375.1	484.9	543.2	595.5	634.3	578.3	496.9	441.6	391.5	348.2	317.5
55°	324.3	406.5	459.5	517.0	560.4	523.8	448.3	394.5	351.2	315.3	289.1
57.5°	275.7	347.4	390.8	441.6	487.9	460.2	399.7	353.4	315.3	283.9	260.8
60°	234.6	292.9	326.5	366.1	423.6	404.2	354.2	311.6	280.9	252.5	233.1
62.5°	199.5	245.8	274.2	302.6	354.9	345.9	307.1	274.2	248.1	224.1	207.7
65°	163.6	201.7	224.1	248.8	290.6	294.4	263.0	239.8	215.9	195.0	180.1
67.5°	132.2	162.1	182.3	203.2	236.8	247.3	225.6	206.2	186.0	168.9	155.4
70°	106.8	127.8	142.7	159.1	186.8	199.5	188.3	174.8	158.4	144.2	132.2
72.5°	84.4	97.9	106.8	119.5	142.0	154.7	153.9	142.0	130.0	120.3	110.6
75°	62.0	72.5	79.9	88.2	106.1	118.1	121.0	115.8	103.9	96.4	88.9
77.5°	47.1	53.0	56.8	62.8	75.5	85.9	90.4	88.9	80.7	74.7	69.5
80°	35.9	37.4	38.9	41.1	51.6	61.3	64.3	63.5	59.0	56.8	50.8
82.5°	25.4	26.2	26.9	27.6	31.4	39.6	42.6	44.1	40.3	38.1	32.9
85°	14.9	15.7	15.7	17.2	17.9	20.2	25.4	25.4	24.7	21.7	20.9
87.5°	7.5	7.5	6.7	6.7	7.5	8.2	9.7	11.2	9.7	9.0	8.2
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: P997728

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1063.2	1063.9	1066.2	1059.5	1049.0	1044.5	1031.1	1028.8	1026.6	1026.6	1028.8
5°	1039.3	1036.3	1037.0	1024.3	1009.4	1000.4	981.8	984.7	975.0	969.1	970.6
7.5°	1013.1	1004.9	1004.2	987.7	969.1	952.6	933.2	928.7	919.7	909.3	904.8
10°	980.3	974.3	963.1	944.4	920.5	907.0	880.9	865.2	863.0	847.3	841.3
12.5°	946.6	936.2	925.0	898.8	871.9	850.3	830.8	813.7	801.7	788.2	779.3
15°	907.8	895.1	882.4	854.7	823.4	801.7	772.6	747.2	712.0	684.4	668.7
17.5°	865.2	851.0	833.8	803.2	772.6	742.7	688.9	659.0	634.3	617.9	608.2
20°	821.1	805.4	788.2	757.6	704.6	652.3	622.4	599.2	584.3	567.8	555.9
22.5°	774.8	758.4	739.7	691.9	635.8	599.2	576.1	554.4	532.7	523.8	517.8
25°	731.5	716.5	692.6	627.6	583.5	549.9	523.8	509.6	498.4	486.4	475.2
27.5°	686.6	659.0	625.4	570.8	543.2	508.8	490.1	479.7	460.2	452.0	446.8
30°	632.8	602.2	570.1	531.2	499.1	475.2	458.0	440.8	429.6	421.4	412.4
32.5°	578.3	549.2	529.0	488.6	464.7	440.1	423.6	413.2	396.7	391.5	387.8
35°	531.2	506.6	488.6	455.8	433.3	410.9	399.0	383.3	372.8	363.1	357.1
37.5°	484.9	471.5	452.8	425.1	401.2	383.3	366.9	361.6	347.4	342.2	336.2
40°	452.8	432.6	416.9	393.0	372.8	353.4	342.9	331.0	321.3	313.1	310.8
42.5°	413.9	399.0	390.0	363.9	342.9	331.7	319.0	305.6	298.1	291.4	283.2
45°	384.8	371.3	358.6	337.7	319.0	304.8	293.6	284.7	272.0	269.0	256.3
47.5°	354.2	340.7	331.0	310.1	292.9	279.4	271.2	259.3	248.8	242.1	236.1
50°	323.5	312.3	303.3	285.4	270.5	256.3	245.1	233.1	228.6	217.4	213.7
52.5°	294.4	286.9	277.2	260.0	245.1	233.1	221.2	211.4	204.7	198.7	194.3
55°	269.7	257.8	253.3	234.6	221.9	209.2	198.7	192.8	184.5	180.8	177.1
57.5°	242.1	235.4	227.9	213.7	199.5	187.5	180.1	171.1	166.6	162.1	159.1
60°	218.2	208.5	202.5	190.5	177.8	166.6	159.9	153.2	147.2	143.5	137.5
62.5°	190.5	183.1	179.3	166.6	156.2	145.7	139.7	133.0	128.5	121.8	114.3
65°	166.6	160.6	156.2	145.7	136.0	126.3	120.3	112.1	106.1	102.4	101.6
67.5°	145.7	141.2	134.5	124.8	115.1	107.6	100.9	94.1	93.4	91.9	91.9
70°	122.5	118.1	114.3	103.9	95.6	87.4	85.9	83.7	81.4	80.7	79.2
72.5°	102.4	98.6	94.1	85.2	77.0	74.7	73.2	71.7	69.5	68.7	68.0
75°	82.9	77.7	74.7	66.5	64.3	62.8	61.3	59.0	57.5	56.8	55.3
77.5°	63.5	58.3	58.3	53.8	52.3	50.1	48.6	47.1	46.3	44.8	44.8
80°	44.8	44.8	43.3	41.1	38.9	38.1	35.9	35.1	34.4	35.1	33.6
82.5°	32.9	29.9	29.9	28.4	26.9	26.2	24.7	24.7	23.9	23.9	23.9
85°	18.7	18.7	17.9	16.4	15.7	15.7	14.9	14.9	14.2	14.2	13.4
87.5°	7.5	6.7	7.5	6.7	6.7	6.0	6.0	6.0	5.2	6.0	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: P997728

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1028.8	1027.3	1022.9	1024.3	1022.1	1022.1	1020.6	1020.6	1020.6	1024.3	1022.1
5°	972.8	967.6	962.3	960.1	957.9	955.6	955.6	954.9	961.6	960.1	966.1
7.5°	903.3	901.8	891.4	891.4	887.6	886.1	889.9	890.6	891.4	892.8	896.6
10°	841.3	837.6	822.6	824.1	821.9	818.9	821.1	819.6	824.9	826.4	824.9
12.5°	768.1	761.3	744.9	736.7	727.7	721.0	729.2	723.2	744.2	750.1	766.6
15°	670.9	658.2	647.0	647.0	638.8	632.8	636.6	643.3	647.8	654.5	657.5
17.5°	605.9	600.7	591.7	586.5	584.3	582.0	582.0	585.0	594.7	594.0	600.0
20°	550.7	547.7	543.2	536.5	534.2	532.7	532.7	532.7	539.4	545.4	549.2
22.5°	512.5	510.3	507.3	498.4	493.9	492.4	496.1	498.4	503.6	508.1	511.8
25°	474.4	469.2	464.0	461.0	458.8	458.8	460.2	461.0	463.2	465.5	470.0
27.5°	443.1	439.3	431.9	423.6	423.6	421.4	422.9	424.4	429.6	437.1	440.8
30°	407.9	407.2	404.2	401.2	398.2	396.7	399.7	402.0	402.7	406.5	406.5
32.5°	382.5	377.3	372.1	369.1	367.6	366.9	367.6	370.6	370.6	375.1	380.3
35°	357.1	354.2	348.9	343.7	342.2	338.5	341.4	344.4	349.7	351.9	354.2
37.5°	329.5	325.8	323.5	322.0	319.0	319.8	317.5	322.0	326.5	325.8	327.3
40°	308.6	301.9	295.1	294.4	293.6	292.9	292.9	293.6	296.6	299.6	304.1
42.5°	281.7	279.4	273.5	267.5	266.0	264.5	263.0	266.0	272.0	277.2	279.4
45°	254.0	251.0	249.5	245.1	242.1	241.3	239.8	243.6	248.8	251.0	252.5
47.5°	228.6	227.9	223.4	224.1	221.9	222.7	221.9	224.1	224.1	226.4	227.9
50°	211.4	209.2	207.0	205.5	203.2	203.2	202.5	203.2	206.2	209.2	208.5
52.5°	194.3	190.5	189.8	189.0	187.5	189.0	186.8	187.5	190.5	192.0	191.3
55°	174.1	173.3	171.8	170.4	169.6	168.9	168.9	168.9	171.8	174.1	174.8
57.5°	158.4	154.7	151.7	151.7	148.7	147.9	149.4	150.2	152.4	153.9	155.4
60°	136.7	135.2	130.8	128.5	124.0	123.3	123.3	126.3	130.0	135.2	136.7
62.5°	113.6	111.3	110.6	110.6	110.6	110.6	110.6	110.6	110.6	111.3	111.3
65°	100.9	101.6	100.9	100.1	100.9	100.9	100.1	100.1	100.1	100.9	101.6
67.5°	90.4	89.7	90.4	89.7	88.9	88.9	88.2	88.9	89.7	90.4	90.4
70°	78.5	78.5	77.7	78.5	77.7	77.0	76.2	76.2	77.7	78.5	78.5
72.5°	67.2	67.2	66.5	66.5	65.0	65.0	65.7	65.0	65.0	67.2	67.2
75°	56.0	55.3	54.5	54.5	53.8	53.8	53.8	53.0	54.5	54.5	55.3
77.5°	44.1	44.1	44.1	43.3	43.3	42.6	42.6	43.3	43.3	43.3	44.1
80°	33.6	33.6	33.6	32.9	32.1	32.1	32.1	32.1	32.1	32.9	32.1
82.5°	23.2	23.2	23.2	23.2	23.2	22.4	22.4	22.4	23.2	23.2	22.4
85°	14.2	13.4	14.2	14.2	13.4	14.2	13.4	13.4	12.7	12.7	13.4
87.5°	6.0	5.2	4.5	4.5	5.2	4.5	4.5	4.5	5.2	4.5	4.5
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: P997728

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1024.3	1028.1	1026.6	1018.4	1026.6	1028.8	1033.3	1037.8	1040.8	1045.3	1049.0
5°	960.1	967.6	972.0	967.6	982.5	984.7	995.2	1001.2	1010.2	1017.6	1023.6
7.5°	899.6	905.6	914.5	916.0	925.0	935.4	950.4	965.3	979.5	987.0	993.7
10°	834.6	845.0	858.5	855.5	868.9	885.4	901.1	925.0	936.9	950.4	962.3
12.5°	769.6	776.3	794.2	800.2	819.6	832.3	854.0	868.9	898.8	914.5	925.0
15°	656.0	683.6	706.1	733.0	758.4	782.3	801.7	828.6	854.7	866.7	883.9
17.5°	604.4	617.1	630.6	644.0	676.9	719.5	753.9	783.0	805.4	821.1	841.3
20°	550.7	563.4	578.3	591.0	611.2	641.8	684.4	734.5	761.3	777.8	797.2
22.5°	512.5	524.5	534.2	545.4	561.1	583.5	615.7	677.7	713.5	733.7	750.9
25°	471.5	486.4	496.9	505.1	517.8	542.4	568.6	603.7	668.0	683.6	707.6
27.5°	443.1	447.5	459.5	472.2	484.9	498.4	525.2	555.1	598.5	632.8	662.0
30°	409.4	420.6	431.9	437.1	448.3	467.7	484.2	516.3	549.9	576.8	611.9
32.5°	384.0	390.8	398.2	410.9	421.4	434.8	451.3	478.2	506.6	523.8	550.7
35°	355.6	360.1	375.8	381.0	391.5	405.0	421.4	442.3	472.9	486.4	505.8
37.5°	328.7	339.2	343.7	355.6	365.4	378.8	390.8	414.7	434.8	450.5	468.5
40°	307.8	312.3	320.5	331.0	339.2	349.7	364.6	381.8	403.5	416.2	431.9
42.5°	282.4	286.2	296.6	302.6	316.0	325.8	334.7	355.6	375.1	384.8	400.5
45°	254.8	263.7	270.5	282.4	289.9	301.9	313.1	328.0	345.9	357.1	366.1
47.5°	230.9	239.8	246.6	257.8	269.7	275.0	286.9	302.6	319.0	328.0	340.7
50°	211.4	214.4	227.1	232.4	245.1	255.5	263.7	277.2	295.1	300.4	310.8
52.5°	192.8	195.0	203.2	210.0	221.2	230.1	240.6	253.3	268.2	276.4	284.7
55°	176.3	177.8	181.6	189.0	196.5	207.7	217.4	229.4	242.1	251.0	258.5
57.5°	157.6	160.6	163.6	168.1	175.6	186.0	196.5	207.7	218.2	224.1	233.9
60°	136.0	140.5	145.7	150.9	156.2	163.6	175.6	186.0	195.8	201.0	208.5
62.5°	112.8	121.8	126.3	132.2	136.7	143.5	152.4	164.4	171.1	177.8	183.8
65°	101.6	102.4	103.1	109.1	117.3	124.0	132.2	141.2	151.7	156.2	160.6
67.5°	90.4	91.2	92.6	93.4	96.4	103.9	112.8	122.5	130.8	133.7	138.2
70°	79.2	79.2	82.2	82.9	83.7	84.4	91.9	101.6	109.1	112.8	118.1
72.5°	67.2	68.0	69.5	70.2	71.7	73.2	75.5	80.7	89.7	93.4	99.4
75°	55.3	56.0	56.8	57.5	59.8	60.5	62.8	65.7	69.5	74.0	77.7
77.5°	44.1	44.1	44.8	46.3	47.8	48.6	50.8	52.3	53.8	56.0	59.0
80°	32.9	33.6	33.6	35.1	35.1	35.9	36.6	38.9	40.3	41.8	43.3
82.5°	22.4	23.9	23.9	23.9	24.7	25.4	26.2	26.2	27.6	28.4	30.6
85°	13.4	14.2	14.2	14.2	13.4	14.9	14.9	15.7	15.7	15.7	16.4
87.5°	5.2	4.5	5.2	5.2	5.2	6.0	5.2	5.2	6.0	6.7	6.7
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):

	345°	350°	355°	360°
0°	1075.2	1075.2	1075.2	1075.2
2.5°	1055.7	1053.5	1066.9	1081.9
5°	1034.1	1037.8	1055.0	1075.9
7.5°	1011.6	1019.9	1040.0	1067.7
10°	980.3	995.2	1025.8	1054.2
12.5°	949.6	969.8	998.9	1032.6
15°	915.3	937.7	973.5	1013.9
17.5°	877.2	902.6	944.4	988.5
20°	836.8	870.4	914.5	962.3
22.5°	792.0	832.3	877.9	931.0
25°	748.6	792.7	838.3	899.6
27.5°	706.1	749.4	800.2	862.2
30°	663.5	703.1	757.6	824.1
32.5°	617.9	659.0	716.5	784.5
35°	576.1	617.1	670.9	738.2
37.5°	531.2	575.3	626.9	696.3
40°	478.9	530.5	580.5	647.0
42.5°	435.6	490.1	538.7	601.5
45°	401.2	452.8	493.1	554.4
47.5°	369.1	410.9	452.0	508.8
50°	338.5	370.6	413.2	464.0
52.5°	307.1	334.7	371.3	419.2
55°	278.7	304.8	337.7	374.3
57.5°	252.5	271.2	304.1	337.0
60°	223.4	242.8	268.2	295.9
62.5°	198.7	213.7	237.6	260.8
65°	172.6	186.8	204.7	226.4
67.5°	148.7	161.4	175.6	192.8
70°	127.0	136.7	147.2	162.1
72.5°	103.9	114.3	124.0	136.0
75°	85.2	89.7	97.9	106.1
77.5°	65.7	71.7	76.2	82.9
80°	47.1	52.3	53.8	59.0
82.5°	31.4	34.4	37.4	38.9
85°	17.9	19.4	22.4	23.2
87.5°	6.7	7.5	9.0	10.5
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P997728

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A_3500K

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	20.88	22.34	21.25	22.65	22.96	15.30	16.75	15.66	17.06	17.38
	3H	22.21	23.51	22.59	23.84	24.20	16.43	17.73	16.80	18.05	18.42
	4H	22.64	23.86	23.04	24.20	24.58	16.89	18.10	17.29	18.45	18.83
	6H	22.91	24.03	23.33	24.40	24.79	17.26	18.38	17.68	18.75	19.15
	8H	22.99	24.05	23.41	24.44	24.84	17.39	18.45	17.81	18.84	19.25
	12H	23.02	24.04	23.46	24.43	24.86	17.47	18.49	17.90	18.87	19.30
4H	2H	20.86	22.08	21.26	22.43	22.81	15.98	17.20	16.38	17.55	17.93
	3H	22.31	23.31	22.72	23.71	24.11	17.27	18.28	17.68	18.68	19.08
	4H	22.81	23.71	23.24	24.13	24.57	17.83	18.73	18.26	19.15	19.59
	6H	23.19	23.97	23.65	24.41	24.88	18.31	19.10	18.77	19.54	20.00
	8H	23.30	24.03	23.76	24.47	24.94	18.48	19.21	18.94	19.65	20.12
	12H	23.37	24.02	23.86	24.50	24.98	18.60	19.25	19.08	19.73	20.20
8H	4H	22.80	23.53	23.26	23.98	24.44	18.15	18.88	18.61	19.33	19.80
	6H	23.22	23.82	23.71	24.31	24.79	18.73	19.34	19.23	19.83	20.31
	8H	23.36	23.90	23.88	24.41	24.90	18.96	19.50	19.48	20.02	20.50
	12H	23.48	23.95	23.99	24.45	25.01	19.15	19.63	19.66	20.12	20.69
12H	4H	22.78	23.43	23.26	23.91	24.38	18.19	18.84	18.67	19.32	19.79
	6H	23.19	23.73	23.71	24.24	24.73	18.79	19.33	19.31	19.85	20.34
	8H	23.37	23.85	23.88	24.34	24.91	19.08	19.55	19.59	20.05	20.62