

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



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243279

Luminaire Tested: S122RDRP-H675D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-H675D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

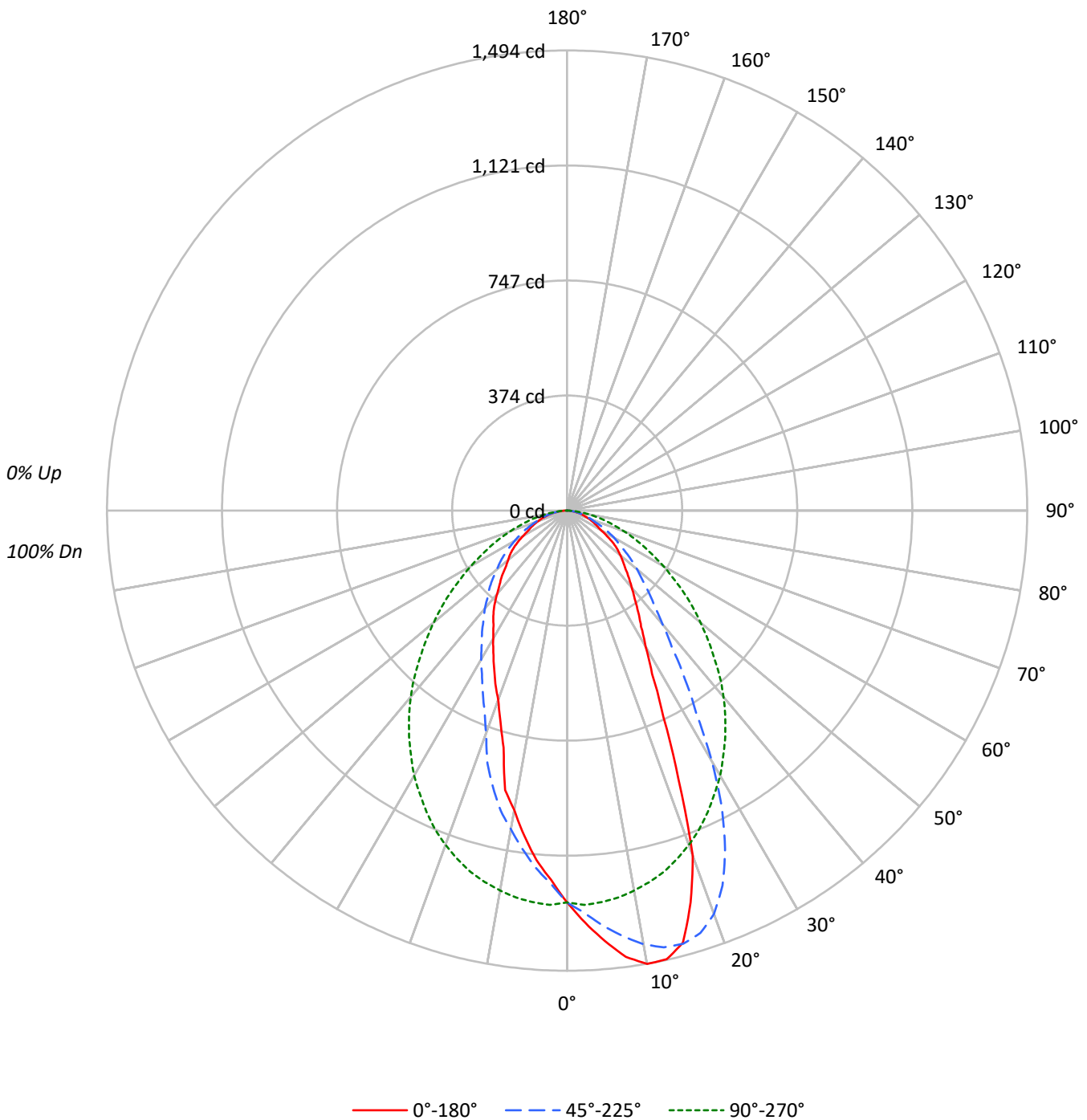
Lumens per Lamp: N/A
Luminaire Lumens: 2144.1 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
Input Voltage (V): 120
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	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	86	83	79	84	80	78					76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60					58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	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					38				
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	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°	45°	90°	135°	180°
0°	24232	24232	24232	24232	24232
5°	26824	25885	24398	22264	21778
10°	28906	27651	24229	20332	19100
15°	28651	28708	23948	18339	15697
20°	24168	28253	23416	15578	13249
25°	15540	25496	22696	13632	11795
30°	11226	20675	21856	12279	10566
35°	9350	15479	20802	11210	9720
40°	8116	11997	19646	10341	8800
45°	7244	10048	18177	9622	8052
50°	6685	8748	16740	8834	7402
55°	6001	7548	15289	8239	7050
60°	4789	6644	13764	7486	6343
65°	4390	5647	12363	6869	5855
70°	4032	4661	10921	6098	5564
75°	3680	4165	9560	5792	5269
80°	3192	3653	7942	5298	4936
85°	2557	2994	6360	4830	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 24066 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	5.6
10°-20°	329.5	15.4
20°-30°	415.3	19.4
30°-40°	398.7	18.6
40°-50°	343.4	16.0
50°-60°	262.6	12.2
60°-70°	167.1	7.8
70°-80°	84.7	3.9
80°-90°	22.4	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°	865.3	40.4
0°-40°	1264.0	59.0
0°-60°	1870.0	87.2
0°-90°	2144.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1272	1272	1272	1272	1272	
5°	1403	1354	1276	1164	1139	137
15°	1453	1456	1214	930	796	394
25°	739	1213	1080	649	561	353
35°	402	666	895	482	418	253
45°	269	373	675	357	299	209
55°	181	227	460	248	212	159
65°	97	125	274	152	130	97
75°	50	57	130	79	72	53
85°	12	14	29	22	21	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2
2.5°	1339.7	1341.3	1342.2	1340.1	1335.5	1335.9	1331.7	1324.7	1315.9	1308.0	1312.6
5°	1402.9	1405.0	1404.6	1400.9	1396.3	1392.1	1385.0	1375.0	1364.6	1353.8	1351.7
7.5°	1461.2	1465.8	1464.5	1457.5	1454.1	1448.3	1436.2	1425.0	1409.2	1393.8	1387.5
10°	1494.5	1498.3	1496.2	1494.5	1490.8	1484.9	1474.1	1463.3	1445.8	1429.6	1420.4
12.5°	1492.0	1495.4	1497.0	1498.7	1497.4	1495.4	1490.8	1481.6	1467.5	1452.5	1440.8
15°	1452.9	1447.5	1443.7	1454.1	1457.9	1472.0	1475.4	1476.6	1467.0	1455.8	1452.9
17.5°	1333.8	1335.5	1364.2	1359.6	1365.9	1400.4	1414.2	1432.9	1440.8	1438.3	1443.3
20°	1192.3	1172.7	1186.9	1207.7	1227.3	1277.6	1310.9	1340.5	1374.6	1393.8	1412.1
22.5°	945.8	946.3	980.4	1014.5	1058.7	1113.2	1164.0	1220.6	1281.4	1318.4	1361.3
25°	739.4	759.3	774.3	789.3	853.4	905.9	990.4	1059.1	1142.7	1213.1	1285.1
27.5°	597.8	618.6	621.1	654.8	692.7	735.2	790.6	898.8	984.6	1087.8	1176.9
30°	510.4	514.5	523.3	532.0	559.9	599.5	659.0	726.9	822.2	940.0	1059.5
32.5°	447.1	446.3	455.0	468.8	484.2	510.8	544.5	600.7	686.9	780.6	920.0
35°	402.1	400.9	407.1	412.1	421.3	442.9	473.3	510.4	572.4	665.7	773.9
37.5°	359.7	362.2	365.9	371.3	383.4	397.2	417.6	448.4	497.5	559.1	662.8
40°	326.4	329.3	333.5	337.2	346.4	357.6	371.3	395.9	428.8	482.5	562.0
42.5°	296.4	297.7	301.0	306.4	313.1	323.0	336.4	355.1	382.6	420.0	489.6
45°	268.9	268.9	272.7	277.7	281.8	291.4	301.8	319.7	341.0	373.0	422.5
47.5°	245.6	246.0	248.1	248.9	253.5	262.3	273.5	287.7	305.1	329.7	375.9
50°	225.6	227.3	228.1	229.4	231.0	235.6	243.5	254.4	273.5	295.2	326.0
52.5°	204.8	206.9	208.6	211.1	213.6	214.0	219.8	226.9	240.2	262.7	287.7
55°	180.7	182.3	185.7	187.8	191.1	194.0	198.6	203.6	212.3	227.3	253.1
57.5°	153.2	153.6	156.9	159.0	165.7	172.3	176.5	181.9	188.2	198.6	218.1
60°	125.7	127.0	127.4	129.1	134.9	142.0	150.3	158.6	165.3	174.4	188.2
62.5°	110.7	111.2	112.4	114.1	114.5	117.8	120.3	130.3	142.0	151.1	160.3
65°	97.4	97.8	97.8	99.1	100.7	102.4	103.7	107.4	112.4	125.3	136.5
67.5°	84.9	84.5	85.3	86.6	87.0	88.3	90.3	92.4	95.7	99.5	111.2
70°	72.4	72.4	72.0	73.3	74.5	74.9	76.2	78.3	80.3	83.7	87.4
72.5°	59.9	60.8	60.8	61.6	62.0	63.7	64.5	65.4	68.3	69.9	72.9
75°	50.0	49.5	50.8	50.4	51.2	51.6	52.9	54.1	55.0	56.6	59.1
77.5°	40.0	39.1	40.0	39.5	40.4	41.2	41.2	42.5	43.3	45.0	46.2
80°	29.1	29.1	29.6	30.4	30.4	30.8	31.6	31.2	32.9	33.3	34.6
82.5°	20.0	20.4	20.4	20.8	20.8	20.8	21.6	21.6	22.1	22.9	23.3
85°	11.7	11.2	11.7	11.7	11.7	12.1	12.5	12.1	12.9	13.7	13.7
87.5°	3.3	3.3	3.7	4.2	4.2	4.6	4.6	4.6	5.0	5.0	5.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2
2.5°	1312.6	1310.5	1305.1	1300.1	1291.0	1283.5	1281.0	1281.4	1270.1	1258.5	1255.1
5°	1348.8	1341.3	1330.5	1319.3	1305.5	1291.8	1283.0	1276.0	1258.5	1241.0	1231.0
7.5°	1378.8	1366.7	1350.9	1333.0	1315.1	1294.7	1280.5	1267.2	1243.1	1219.3	1206.4
10°	1406.3	1389.2	1367.5	1344.2	1320.5	1293.9	1273.5	1252.7	1222.3	1195.6	1173.6
12.5°	1432.5	1405.4	1383.4	1349.6	1323.4	1287.2	1259.3	1235.2	1199.4	1166.1	1141.5
15°	1435.0	1415.8	1386.3	1351.3	1311.3	1277.6	1242.7	1214.4	1173.6	1136.5	1094.5
17.5°	1434.6	1419.6	1388.8	1353.0	1305.1	1261.0	1223.1	1186.0	1139.4	1096.1	1059.9
20°	1419.6	1409.2	1382.5	1340.1	1291.8	1241.0	1198.9	1155.2	1100.7	1056.2	1016.6
22.5°	1384.2	1386.7	1365.9	1328.0	1276.0	1219.3	1170.6	1120.3	1064.5	1013.3	963.3
25°	1324.3	1350.9	1344.7	1309.3	1253.9	1191.9	1136.5	1079.9	1019.9	965.4	919.2
27.5°	1249.7	1299.7	1310.5	1283.0	1230.2	1160.6	1097.8	1036.2	975.0	916.3	868.8
30°	1161.5	1236.0	1263.5	1248.5	1199.8	1126.9	1054.1	993.7	926.7	864.2	814.3
32.5°	1050.3	1154.8	1203.1	1207.7	1167.7	1089.5	1008.7	943.8	875.1	816.0	762.2
35°	926.3	1054.5	1133.2	1154.4	1125.7	1048.2	963.3	894.6	821.4	761.8	707.7
37.5°	801.4	952.1	1055.3	1096.5	1077.4	1002.5	912.5	843.0	770.6	709.8	659.0
40°	686.5	829.7	963.7	1028.3	1022.4	952.9	862.2	790.1	716.5	660.3	604.5
42.5°	583.7	721.9	869.2	955.8	960.4	899.6	806.8	734.4	663.6	607.8	549.5
45°	502.5	624.0	770.2	873.4	893.4	843.4	749.3	674.8	610.3	557.8	499.6
47.5°	437.5	532.0	667.7	788.9	824.3	780.6	690.6	619.9	559.1	514.1	459.2
50°	381.3	470.0	585.3	697.3	749.3	716.5	632.4	564.9	510.0	466.7	418.4
52.5°	331.4	400.1	500.0	607.4	677.3	647.3	575.7	513.7	462.1	421.7	381.3
55°	290.2	347.6	435.9	531.6	596.1	579.5	515.8	460.4	415.1	376.8	343.9
57.5°	247.7	296.0	367.2	452.5	515.8	513.3	460.8	407.6	371.8	335.5	311.8
60°	210.6	249.8	307.6	380.1	443.8	444.2	403.4	361.3	330.5	299.3	276.8
62.5°	177.8	209.0	259.4	317.6	368.4	381.3	350.9	314.3	289.3	265.2	246.0
65°	149.5	172.8	210.6	263.5	303.5	321.0	301.0	274.3	253.5	231.9	214.8
67.5°	123.2	140.3	168.2	209.8	249.8	262.7	254.4	234.0	219.0	201.1	188.2
70°	97.0	111.6	131.1	162.4	195.2	213.1	210.6	196.1	183.6	170.7	158.6
72.5°	77.0	85.3	100.3	122.8	149.0	169.0	169.9	162.4	151.9	141.1	133.2
75°	62.0	65.8	72.9	90.3	111.2	127.8	133.6	129.9	121.6	114.9	109.5
77.5°	47.9	51.2	55.8	64.1	80.3	93.3	100.3	100.7	95.7	89.9	85.8
80°	35.8	37.1	40.4	44.5	52.9	64.1	72.4	72.4	69.5	66.6	64.1
82.5°	24.6	25.8	27.5	29.6	33.7	40.4	47.9	49.1	47.5	46.6	43.3
85°	13.7	15.0	15.8	17.1	18.7	22.1	27.5	29.1	29.6	27.1	25.4
87.5°	5.4	5.4	5.8	6.2	6.7	7.9	10.0	12.5	12.5	11.2	10.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2
2.5°	1251.0	1245.2	1237.7	1231.0	1221.8	1212.7	1211.0	1214.4	1215.2	1211.0	1212.3
5°	1221.4	1210.6	1201.4	1186.5	1176.9	1164.4	1156.1	1156.1	1156.1	1149.8	1144.0
7.5°	1190.6	1176.1	1158.6	1144.4	1124.8	1108.6	1100.7	1097.0	1089.5	1083.2	1076.1
10°	1154.8	1134.4	1112.8	1090.7	1073.6	1051.2	1037.8	1029.5	1016.6	1011.2	1000.8
12.5°	1112.8	1092.4	1066.1	1030.3	1025.4	997.9	979.1	963.7	947.9	935.0	930.4
15°	1079.1	1043.7	1008.7	983.3	946.3	930.0	902.5	900.0	887.1	849.3	819.7
17.5°	1024.5	992.9	954.2	925.9	896.3	860.1	830.9	802.2	774.7	748.1	747.3
20°	976.2	939.2	902.5	871.7	820.1	768.5	750.6	724.4	708.1	686.9	680.7
22.5°	923.4	884.6	838.8	793.9	733.5	701.1	681.5	660.7	644.4	634.9	625.3
25°	870.1	831.4	770.6	715.2	674.0	648.6	631.9	609.5	597.8	589.5	577.0
27.5°	818.0	768.9	704.8	660.7	627.4	598.6	583.7	565.3	552.4	541.6	533.7
30°	766.4	699.0	644.4	610.3	576.2	558.3	538.7	525.0	515.4	505.4	492.5
32.5°	709.8	639.0	603.6	561.6	541.6	515.8	501.6	487.5	475.0	467.9	463.3
35°	644.0	587.0	555.3	524.5	499.1	482.1	462.1	453.4	446.7	433.0	427.1
37.5°	588.2	547.0	513.7	486.2	462.9	444.6	435.5	420.5	410.9	406.3	400.1
40°	542.0	505.4	476.7	448.8	429.2	415.9	399.6	391.7	379.3	374.7	369.7
42.5°	502.1	468.3	438.4	417.1	400.1	381.7	373.4	360.1	354.7	343.4	339.3
45°	461.7	431.7	405.5	384.7	368.4	357.2	342.2	333.9	324.3	318.5	307.2
47.5°	421.3	394.7	373.0	355.5	341.4	327.6	315.1	308.1	296.0	289.7	283.9
50°	390.1	364.3	343.9	326.4	311.8	298.1	290.2	278.5	267.7	260.6	258.5
52.5°	353.0	330.5	311.8	298.5	283.9	273.9	263.1	250.2	244.8	237.7	236.0
55°	320.1	301.8	286.0	271.8	259.4	248.1	235.6	226.5	222.3	219.0	216.5
57.5°	289.3	271.8	257.3	244.4	233.5	221.9	211.5	206.1	202.3	198.6	196.1
60°	258.9	243.1	229.8	219.0	207.7	196.5	189.0	184.4	181.5	176.1	174.4
62.5°	231.9	217.3	203.6	193.6	183.2	174.4	168.2	161.9	157.4	153.2	144.5
65°	202.3	189.4	179.0	169.0	159.0	152.4	145.3	138.2	132.4	132.4	132.4
67.5°	176.1	164.9	154.0	145.3	136.5	128.6	121.6	121.1	119.1	118.2	117.0
70°	149.5	141.5	131.6	122.0	113.2	109.5	108.2	106.2	103.7	103.2	101.6
72.5°	125.3	116.1	107.0	98.7	97.0	95.3	92.8	90.8	89.1	87.8	87.0
75°	102.4	93.3	85.8	83.7	81.6	78.7	76.6	74.9	74.1	74.1	73.7
77.5°	78.3	72.9	69.5	66.2	64.5	62.9	61.6	60.8	59.5	59.9	59.1
80°	57.4	55.8	52.9	50.8	50.0	48.3	47.5	47.0	46.2	46.2	45.8
82.5°	41.2	38.3	37.1	35.8	35.0	34.1	34.6	34.1	33.7	33.3	33.7
85°	23.7	23.3	22.5	22.5	22.5	22.1	22.1	22.1	21.6	21.2	21.2
87.5°	10.4	10.8	10.8	10.0	11.2	11.2	10.8	10.8	10.4	11.2	10.4
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: P243279

CATALOG NUMBER: S122RDRP-H675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1272.2	1272.2	1272.2	1272.2
2.5°	1206.9	1206.4	1203.9	1199.8
5°	1141.5	1139.8	1135.7	1139.0
7.5°	1071.6	1067.0	1062.8	1064.9
10°	996.6	995.0	992.5	987.5
12.5°	913.8	920.4	913.4	929.2
15°	791.0	820.5	783.5	796.0
17.5°	729.8	730.2	725.2	719.4
20°	672.3	657.8	663.2	653.6
22.5°	617.0	613.6	612.0	608.6
25°	567.4	561.2	559.1	561.2
27.5°	530.8	527.9	520.0	518.7
30°	485.0	483.7	481.2	480.4
32.5°	456.3	450.9	449.6	444.6
35°	424.2	421.3	419.2	418.0
37.5°	392.2	390.5	386.7	388.8
40°	365.9	357.6	354.3	353.9
42.5°	337.2	332.6	326.0	323.9
45°	303.9	301.8	299.7	298.9
47.5°	274.8	273.5	271.0	269.8
50°	253.9	250.6	250.2	249.8
52.5°	234.0	232.7	231.5	233.1
55°	215.2	213.6	212.3	212.3
57.5°	194.8	191.9	189.4	189.8
60°	171.1	169.4	167.4	166.5
62.5°	143.6	143.6	143.2	143.2
65°	130.7	129.9	129.5	129.9
67.5°	116.6	115.7	114.5	114.9
70°	100.3	99.9	100.3	99.9
72.5°	85.8	85.3	85.8	86.6
75°	72.4	72.0	71.6	71.6
77.5°	58.7	58.3	57.4	58.3
80°	45.8	45.4	45.0	45.0
82.5°	32.5	32.9	32.5	32.5
85°	21.2	21.6	21.2	20.8
87.5°	10.8	11.2	10.4	10.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243279
 CATALOG NUMBER: S122RDRP-H675D940-X4F0-XX-UDD-A-W

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	15.92	17.37	16.28	17.68	18.00	22.25	23.70	22.61	24.02	24.33
	3H	17.09	18.39	17.47	18.72	19.08	23.50	24.80	23.88	25.13	25.49
	4H	17.55	18.77	17.95	19.12	19.50	23.93	25.15	24.33	25.50	25.88
	6H	17.88	19.00	18.29	19.37	19.76	24.23	25.35	24.64	25.72	26.11
	8H	17.98	19.05	18.40	19.44	19.84	24.31	25.38	24.74	25.77	26.17
	12H	18.03	19.05	18.46	19.43	19.86	24.36	25.38	24.79	25.76	26.19
4H	2H	16.64	17.86	17.04	18.21	18.59	22.23	23.45	22.63	23.80	24.18
	3H	17.97	18.98	18.38	19.38	19.78	23.62	24.63	24.03	25.03	25.43
	4H	18.52	19.43	18.95	19.84	20.28	24.14	25.05	24.58	25.47	25.91
	6H	18.95	19.74	19.41	20.18	20.64	24.56	25.35	25.02	25.79	26.25
	8H	19.08	19.82	19.55	20.26	20.73	24.69	25.43	25.16	25.87	26.34
	12H	19.16	19.82	19.65	20.30	20.77	24.79	25.44	25.27	25.92	26.39
8H	4H	18.86	19.60	19.33	20.05	20.51	24.14	24.88	24.61	25.32	25.79
	6H	19.39	19.99	19.89	20.49	20.97	24.61	25.21	25.10	25.70	26.18
	8H	19.57	20.12	20.09	20.63	21.12	24.78	25.32	25.29	25.83	26.32
	12H	19.71	20.19	20.22	20.68	21.25	24.92	25.40	25.43	25.89	26.46
12H	4H	18.91	19.56	19.39	20.04	20.51	24.12	24.78	24.60	25.26	25.73
	6H	19.45	20.00	19.97	20.51	21.00	24.58	25.13	25.10	25.64	26.13
	8H	19.68	20.16	20.20	20.66	21.22	24.79	25.27	25.30	25.76	26.33