

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: P243176

Luminaire Tested: S122DRP-H675D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H675D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

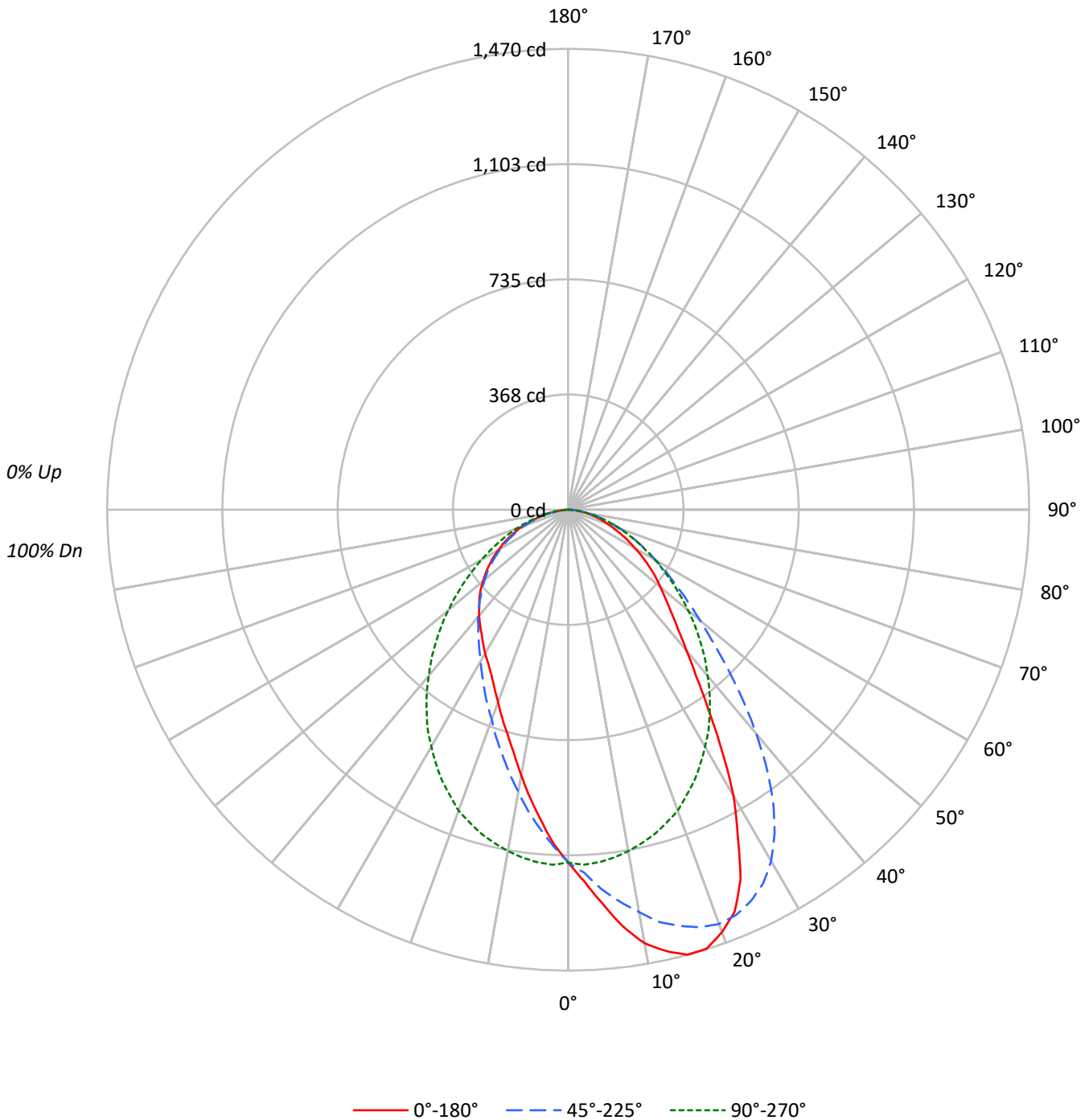
Lumens per Lamp: N/A
Luminaire Lumens: 2496.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					63				
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21429	21429	21429	21429	21429
5°	24136	23214	21581	19543	19010
10°	27169	25214	21388	17692	16638
15°	28982	27101	21100	15969	14664
20°	29065	28500	20718	14440	13232
25°	27337	28955	20029	13299	12198
30°	23204	28461	19195	12271	11648
35°	18142	26506	18298	11589	11210
40°	14576	23179	17194	11120	10995
45°	12539	19425	16060	10654	10788
50°	11376	16200	14781	10300	10487
55°	10481	13924	13466	9900	10205
60°	9421	12274	12133	9436	9737
65°	8482	10979	10903	8838	9271
70°	7557	9740	9690	8092	8671
75°	6800	8485	8331	7168	7602
80°	5934	7031	6713	5847	5934
85°	5092	5813	5005	3912	3278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 26859 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	4.3
10°-20°	308.0	12.3
20°-30°	448.0	17.9
30°-40°	480.5	19.3
40°-50°	430.7	17.3
50°-60°	343.3	13.8
60°-70°	232.3	9.3
70°-80°	118.5	4.7
80°-90°	27.8	1.1
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°	863.2	34.6
0°-40°	1343.7	53.8
0°-60°	2117.8	84.8
0°-90°	2496.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1125	1125	1125	1125	1125	
5°	1262	1214	1129	1022	994	125
15°	1470	1374	1070	810	744	412
25°	1301	1378	953	633	580	585
35°	780	1140	787	498	482	494
45°	466	721	596	396	400	364
55°	316	419	406	298	307	282
65°	188	244	242	196	206	187
75°	92	115	113	97	103	99
85°	23	27	23	18	15	27
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°	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0
2.5°	1187.4	1191.2	1187.8	1186.6	1184.1	1183.2	1176.6	1171.2	1167.8	1158.7	1159.5
5°	1262.3	1270.7	1266.1	1265.7	1256.5	1250.7	1244.9	1236.5	1224.0	1214.1	1206.1
7.5°	1341.5	1337.3	1336.0	1331.5	1324.8	1316.5	1303.6	1291.5	1275.7	1261.1	1250.3
10°	1404.7	1403.5	1405.6	1393.9	1389.7	1376.8	1365.6	1346.9	1326.5	1303.6	1289.4
12.5°	1442.2	1446.0	1448.9	1444.3	1434.3	1430.6	1411.8	1385.6	1378.5	1347.3	1330.2
15°	1469.7	1471.4	1471.8	1466.8	1461.8	1452.2	1441.0	1424.3	1401.4	1374.3	1361.4
17.5°	1468.0	1467.6	1470.1	1467.2	1464.3	1461.4	1452.6	1439.7	1421.8	1396.4	1374.8
20°	1433.9	1441.4	1447.2	1448.5	1448.0	1449.7	1445.5	1437.2	1424.3	1406.0	1381.4
22.5°	1387.3	1384.3	1396.8	1396.0	1401.4	1413.9	1419.3	1416.0	1411.0	1399.3	1379.8
25°	1300.7	1303.6	1312.3	1321.5	1342.7	1350.2	1366.4	1378.9	1380.6	1377.7	1365.6
27.5°	1170.8	1191.6	1196.2	1208.2	1237.8	1262.3	1295.2	1314.8	1342.7	1345.2	1339.8
30°	1055.0	1054.2	1061.3	1082.9	1110.0	1147.0	1189.5	1239.9	1271.9	1294.0	1301.9
32.5°	912.6	916.0	934.3	960.9	988.4	1025.5	1074.6	1136.2	1179.1	1224.9	1250.7
35°	780.2	790.6	808.1	826.4	856.4	907.2	961.8	1013.0	1078.7	1139.9	1181.6
37.5°	671.1	685.3	698.6	716.1	745.3	784.4	833.5	901.4	966.7	1040.4	1101.6
40°	586.2	591.6	600.8	617.9	637.4	676.6	726.1	776.9	847.7	932.2	1012.5
42.5°	519.6	518.3	528.3	539.2	557.1	586.2	629.5	680.3	750.7	825.6	906.8
45°	465.5	465.9	470.1	481.3	495.4	512.1	545.4	593.3	646.6	721.1	807.3
47.5°	421.3	422.6	428.8	436.7	445.1	460.5	482.5	513.8	563.7	626.2	706.9
50°	383.9	385.9	390.1	395.9	402.2	413.0	429.7	454.2	493.8	546.7	619.9
52.5°	350.6	351.4	352.6	358.1	363.1	373.0	385.5	404.7	435.9	480.0	537.1
55°	315.6	314.8	317.7	322.2	326.8	333.9	346.8	362.2	384.3	419.3	466.3
57.5°	279.8	281.0	283.1	285.6	293.9	301.4	311.0	325.2	342.6	370.1	409.3
60°	247.3	247.3	249.8	253.1	258.5	263.5	272.7	285.6	301.0	322.2	355.1
62.5°	215.7	217.3	219.8	221.5	226.5	232.7	239.8	249.8	264.0	281.0	305.6
65°	188.2	187.4	189.9	193.2	196.9	201.1	209.0	217.3	228.2	243.6	264.0
67.5°	159.9	162.4	163.2	164.9	167.8	173.2	176.9	185.7	194.4	208.2	225.2
70°	135.7	137.4	138.6	140.7	143.2	145.7	149.5	156.5	165.3	174.9	186.9
72.5°	114.1	115.3	114.1	116.2	117.4	119.9	124.9	128.2	134.9	143.2	154.0
75°	92.4	93.3	92.8	94.9	95.3	97.8	100.3	103.3	110.7	115.3	122.8
77.5°	72.4	73.3	73.7	74.5	75.4	76.6	77.9	80.8	84.9	89.1	94.9
80°	54.1	54.1	55.4	55.8	56.2	57.0	59.1	60.0	62.9	64.1	68.7
82.5°	37.5	37.9	38.3	38.3	38.7	39.6	40.0	41.6	42.5	44.5	46.6
85°	23.3	23.7	23.7	23.7	25.0	24.6	24.6	25.4	26.6	26.6	27.5
87.5°	11.7	12.1	12.1	12.1	12.5	12.5	12.5	12.5	12.5	13.3	12.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0
2.5°	1159.1	1158.7	1157.0	1149.5	1143.7	1136.2	1134.9	1133.7	1123.3	1112.0	1108.7
5°	1199.9	1192.4	1182.0	1169.5	1157.0	1143.3	1135.4	1128.7	1112.9	1095.4	1085.4
7.5°	1239.9	1225.3	1209.1	1189.5	1168.7	1146.6	1132.5	1119.1	1097.5	1074.6	1060.8
10°	1274.0	1254.4	1232.0	1206.1	1177.4	1147.4	1126.6	1105.8	1078.3	1050.4	1032.1
12.5°	1302.3	1277.3	1247.8	1212.8	1186.6	1145.4	1116.2	1088.7	1058.3	1022.1	1002.1
15°	1324.0	1299.4	1259.4	1224.0	1189.5	1134.5	1099.1	1070.0	1029.2	993.8	962.2
17.5°	1350.2	1315.2	1275.7	1224.9	1186.6	1123.7	1083.7	1045.9	1001.7	960.1	925.1
20°	1361.9	1325.2	1282.7	1226.1	1177.4	1112.0	1058.8	1022.1	968.8	920.9	881.4
22.5°	1363.5	1328.5	1282.3	1222.4	1161.6	1095.0	1033.8	985.9	932.6	881.8	837.3
25°	1356.4	1323.1	1275.3	1215.7	1144.1	1076.7	1008.4	953.0	891.4	838.9	793.5
27.5°	1337.3	1310.2	1264.8	1201.1	1126.2	1048.3	973.8	913.5	852.7	793.1	749.8
30°	1306.5	1288.6	1249.4	1182.0	1103.3	1017.5	943.0	872.7	806.9	751.1	704.5
32.5°	1266.9	1258.2	1225.7	1159.1	1080.0	983.8	906.0	833.5	761.9	709.0	661.2
35°	1216.6	1221.1	1193.7	1133.3	1050.4	949.7	862.7	786.9	716.9	660.7	616.6
37.5°	1151.2	1173.7	1156.2	1099.6	1012.5	915.1	817.3	741.1	667.8	613.7	575.0
40°	1077.9	1117.5	1109.1	1061.7	971.7	874.7	773.6	691.5	619.9	568.7	531.7
42.5°	991.7	1049.2	1058.3	1015.5	931.4	824.4	724.4	645.3	576.2	525.8	490.5
45°	895.1	966.3	997.1	963.4	884.3	775.6	674.1	596.2	527.9	485.0	455.5
47.5°	798.1	883.9	925.5	909.3	829.4	723.6	624.1	547.9	483.4	445.9	418.0
50°	702.4	794.4	855.2	844.3	775.2	674.1	573.7	498.8	439.7	405.1	381.4
52.5°	618.3	705.3	771.5	776.9	714.9	617.4	520.4	450.9	400.5	369.3	349.3
55°	535.4	616.2	688.6	702.0	651.6	557.9	471.3	405.5	359.7	333.9	317.7
57.5°	461.3	534.6	606.6	629.9	589.1	504.6	418.4	360.6	321.0	301.0	286.9
60°	398.4	464.6	526.7	550.4	522.5	445.5	370.1	318.5	285.6	267.7	256.5
62.5°	343.5	394.7	449.6	475.9	457.1	390.1	324.3	278.5	251.9	236.5	227.7
65°	293.9	333.5	376.8	407.2	386.4	336.4	281.4	241.9	219.4	205.3	199.0
67.5°	248.1	281.0	315.6	339.7	329.3	283.9	237.7	206.9	188.2	177.4	171.5
70°	206.5	231.1	259.0	277.7	270.2	235.2	198.6	174.0	158.2	150.7	145.7
72.5°	169.5	185.3	206.5	221.9	214.0	189.4	163.2	143.6	132.0	123.2	119.5
75°	134.5	148.2	163.2	173.6	167.4	149.1	128.2	113.2	105.3	99.9	97.4
77.5°	102.0	112.8	123.2	128.2	125.3	112.0	97.8	86.2	79.5	76.2	73.3
80°	73.3	79.5	86.6	91.2	89.5	80.4	70.4	61.2	58.3	54.1	53.3
82.5°	49.1	54.1	55.8	57.9	56.6	52.5	45.4	40.0	37.5	35.4	35.0
85°	29.1	30.4	32.5	32.5	31.2	28.3	24.6	22.9	20.4	20.0	18.7
87.5°	12.9	12.9	12.9	12.9	12.9	12.1	10.4	9.6	8.7	8.3	7.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0	1125.0
2.5°	1105.8	1101.6	1095.8	1089.2	1083.3	1074.2	1071.2	1071.2	1073.3	1070.8	1068.8
5°	1077.1	1068.8	1060.4	1047.5	1036.7	1022.1	1018.0	1013.8	1013.4	1009.2	1003.8
7.5°	1046.3	1033.8	1016.7	998.4	986.7	970.9	962.2	959.7	951.8	944.3	935.5
10°	1010.5	991.3	970.9	953.4	935.1	914.7	904.3	897.2	889.3	880.1	873.9
12.5°	967.2	945.5	926.8	906.4	891.0	862.2	858.9	849.8	833.9	820.2	815.2
15°	940.5	902.6	881.4	862.7	839.3	809.8	799.0	789.0	774.0	765.2	758.2
17.5°	893.5	859.3	832.7	807.7	785.2	762.3	746.1	737.8	725.7	718.2	711.1
20°	850.6	813.5	785.6	756.5	733.2	712.4	698.6	688.2	682.0	674.5	667.4
22.5°	807.3	768.6	741.9	712.4	684.9	672.4	656.2	647.4	639.1	633.3	625.8
25°	756.9	726.1	692.8	669.9	645.7	632.8	617.4	609.1	602.4	595.8	592.0
27.5°	711.9	680.7	649.9	627.0	606.6	594.1	584.5	576.6	568.3	563.3	560.4
30°	665.3	636.6	609.5	587.5	571.6	557.9	552.1	544.6	538.3	536.2	531.7
32.5°	623.7	591.6	570.0	550.0	536.7	527.1	522.9	515.0	513.8	511.7	509.2
35°	582.0	554.6	533.8	516.7	505.4	498.4	492.9	490.9	488.8	486.7	484.6
37.5°	540.8	519.2	499.6	485.9	476.7	471.3	470.1	465.9	465.5	462.6	462.6
40°	503.8	481.7	468.0	457.1	449.6	447.2	443.8	443.0	441.7	440.9	442.6
42.5°	466.7	451.7	440.1	428.8	423.0	420.9	420.1	418.8	418.0	420.5	421.3
45°	432.2	419.3	409.3	401.4	398.0	395.5	395.5	396.8	396.4	397.6	397.6
47.5°	400.1	388.4	380.1	377.2	373.0	372.2	372.6	372.2	374.3	376.0	377.6
50°	369.7	359.3	352.6	349.7	348.9	347.6	349.3	350.1	351.4	353.1	353.9
52.5°	336.0	331.0	326.8	323.9	323.5	323.9	323.5	326.4	327.7	330.2	329.7
55°	307.3	303.5	300.6	297.3	296.9	298.1	298.9	301.4	303.1	305.2	304.8
57.5°	280.2	277.3	274.0	273.1	272.7	273.1	276.9	276.5	278.9	280.6	281.4
60°	250.6	248.6	245.6	245.6	246.9	247.7	249.0	251.1	253.6	253.1	256.1
62.5°	223.6	221.1	220.2	221.5	221.1	223.2	224.4	224.4	227.7	229.0	229.8
65°	196.5	195.7	194.4	194.4	195.7	196.1	198.2	199.4	200.7	203.2	205.3
67.5°	171.1	169.0	169.0	168.2	169.9	171.1	172.4	174.0	174.9	177.8	179.0
70°	144.5	143.6	143.2	144.1	144.1	145.3	147.4	149.5	151.1	151.5	154.0
72.5°	118.7	118.7	118.7	119.9	120.7	122.0	122.4	124.1	126.6	127.0	128.2
75°	95.3	95.8	95.3	95.8	96.2	97.4	98.3	99.9	101.6	102.0	102.8
77.5°	73.7	72.9	72.0	73.3	74.1	76.6	76.2	77.0	78.7	77.9	78.7
80°	51.6	52.9	51.2	53.7	53.7	53.3	54.1	55.4	55.0	55.8	55.0
82.5°	35.0	33.7	33.7	35.0	35.4	34.1	35.0	35.4	35.8	35.0	34.6
85°	19.2	18.7	19.6	18.3	18.7	17.9	17.9	17.1	17.9	17.1	16.2
87.5°	7.1	6.7	7.1	5.8	5.4	5.0	4.6	4.6	3.7	3.7	3.7
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: P243176

CATALOG NUMBER: S122DRP-H675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1125.0	1125.0	1125.0	1125.0
2.5°	1071.7	1067.1	1065.0	1066.7
5°	998.0	999.2	991.7	994.2
7.5°	934.3	928.9	930.5	927.6
10°	866.8	863.9	859.3	860.2
12.5°	821.4	801.9	800.6	796.9
15°	757.7	746.9	744.4	743.6
17.5°	706.9	697.8	701.1	698.6
20°	661.2	661.6	656.2	652.8
22.5°	620.8	619.9	617.9	614.5
25°	586.6	586.6	581.6	580.4
27.5°	555.4	556.2	552.1	552.1
30°	532.1	529.2	528.8	529.6
32.5°	508.8	505.4	505.9	505.4
35°	483.8	484.6	483.4	482.1
37.5°	462.6	462.6	462.6	461.3
40°	441.7	442.6	441.3	442.2
42.5°	420.9	421.3	421.3	419.7
45°	400.1	399.7	398.9	400.5
47.5°	378.5	378.5	378.0	378.9
50°	354.7	355.6	354.3	353.9
52.5°	330.6	331.0	330.6	331.4
55°	306.0	306.0	306.4	307.3
57.5°	280.6	283.5	281.4	283.1
60°	255.6	256.1	256.5	255.6
62.5°	231.9	231.5	231.9	233.2
65°	206.1	206.9	206.5	205.7
67.5°	180.7	179.9	181.1	179.9
70°	153.6	155.3	154.0	155.7
72.5°	129.1	128.6	129.5	127.4
75°	103.3	103.3	103.7	103.3
77.5°	79.1	78.3	77.9	76.6
80°	54.5	54.5	52.9	54.1
82.5°	33.3	33.7	34.1	31.6
85°	15.8	15.8	15.4	15.0
87.5°	3.3	3.3	3.7	4.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243176
 CATALOG NUMBER: S122DRP-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	19.30	20.82	19.66	21.13	21.45	22.13	23.66	22.50	23.97	24.28
	3H	20.65	22.01	21.03	22.34	22.70	23.15	24.52	23.53	24.85	25.21
	4H	21.13	22.41	21.53	22.76	23.14	23.48	24.76	23.88	25.11	25.49
	6H	21.48	22.67	21.89	23.03	23.43	23.68	24.86	24.09	25.23	25.62
	8H	21.59	22.72	22.02	23.11	23.51	23.72	24.85	24.14	25.24	25.64
	12H	21.66	22.74	22.09	23.12	23.55	23.73	24.81	24.16	25.20	25.62
4H	2H	20.18	21.46	20.58	21.81	22.19	22.37	23.66	22.77	24.01	24.38
	3H	21.68	22.74	22.09	23.14	23.54	23.74	24.81	24.15	25.21	25.61
	4H	22.24	23.20	22.67	23.62	24.05	24.26	25.22	24.69	25.63	26.07
	6H	22.68	23.51	23.14	23.96	24.41	24.59	25.42	25.05	25.87	26.33
	8H	22.81	23.59	23.28	24.04	24.50	24.67	25.44	25.13	25.89	26.36
	12H	22.91	23.61	23.40	24.09	24.56	24.70	25.40	25.19	25.88	26.35
8H	4H	22.68	23.46	23.14	23.90	24.37	24.40	25.17	24.86	25.62	26.08
	6H	23.20	23.84	23.70	24.34	24.81	24.84	25.48	25.33	25.97	26.45
	8H	23.39	23.96	23.90	24.47	24.96	24.97	25.55	25.49	26.06	26.55
	12H	23.54	24.05	24.05	24.54	25.11	25.06	25.57	25.57	26.06	26.63
12H	4H	22.73	23.43	23.22	23.91	24.38	24.39	25.09	24.87	25.56	26.03
	6H	23.28	23.86	23.79	24.37	24.85	24.84	25.42	25.35	25.93	26.41
	8H	23.52	24.03	24.03	24.52	25.08	25.02	25.53	25.53	26.02	26.59