

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: P242291

Luminaire Tested: S122DRP-S675D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S675D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

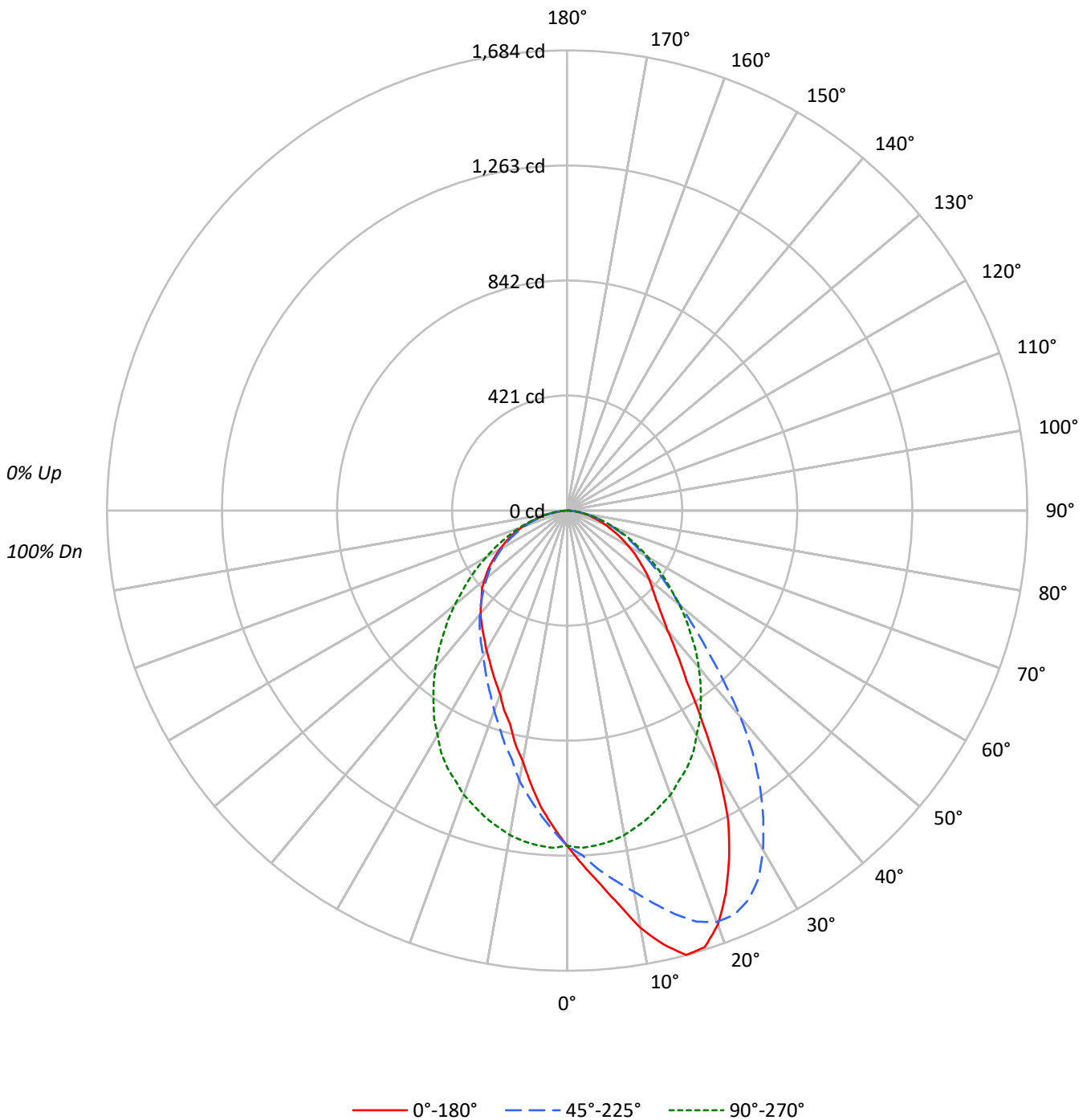
Lumens per Lamp: N/A
Luminaire Lumens: 2705.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

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					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43					43			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23360	23360	23360	23360	23360
5°	26189	25207	23512	21358	20836
10°	30010	27403	23318	19427	18032
15°	33200	30159	22893	17408	15930
20°	32694	32465	22433	15803	14522
25°	29480	33007	21822	14512	13629
30°	24361	31525	20846	13507	12979
35°	17754	28606	19825	12889	12517
40°	14181	24529	18621	12353	12258
45°	12391	19616	17229	11807	11909
50°	11649	16005	15880	11355	11675
55°	10736	13914	14509	10942	11364
60°	9840	12389	13055	10450	10880
65°	8965	11196	11745	9816	10407
70°	8137	10002	10476	9055	9713
75°	7212	8846	9052	8117	8603
80°	6209	7492	7492	6669	6932
85°	5573	6076	5573	4633	4131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 30052 cd/sqm



TEST NUMBER: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	4.3
10°-20°	340.0	12.6
20°-30°	493.4	18.2
30°-40°	520.2	19.2
40°-50°	460.2	17.0
50°-60°	367.4	13.6
60°-70°	249.6	9.2
70°-80°	127.7	4.7
80°-90°	30.2	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°	950.2	35.1
0°-40°	1470.4	54.3
0°-60°	2298.0	84.9
0°-90°	2705.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1226	1226	1226	1226	1226	
5°	1370	1318	1230	1117	1090	136
15°	1684	1529	1161	883	808	466
25°	1403	1570	1038	690	648	636
35°	764	1230	853	554	538	494
45°	460	728	640	438	442	361
55°	323	419	437	330	342	290
65°	199	248	261	218	231	198
75°	98	120	123	110	117	104
85°	26	28	26	21	19	29
90°	0	0	0	0	0	



TEST NUMBER: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1297.1	1297.6	1298.5	1291.0	1290.0	1290.0	1283.4	1277.8	1271.2	1262.2	1263.1
5°	1369.7	1374.9	1376.7	1371.1	1362.6	1361.7	1353.6	1340.4	1328.2	1318.3	1311.2
7.5°	1453.6	1455.4	1451.7	1445.1	1439.4	1428.6	1415.4	1402.7	1383.8	1366.8	1354.6
10°	1551.6	1554.4	1546.4	1535.6	1526.6	1513.4	1491.7	1469.6	1442.7	1416.8	1396.1
12.5°	1626.1	1634.1	1623.2	1624.2	1607.2	1587.9	1561.0	1552.5	1512.0	1473.4	1450.7
15°	1683.6	1683.1	1684.0	1675.1	1663.8	1660.9	1633.6	1603.9	1550.7	1529.4	1492.7
17.5°	1675.1	1681.7	1685.5	1682.6	1680.7	1676.5	1664.7	1642.6	1613.3	1577.5	1533.7
20°	1612.9	1622.3	1623.7	1634.6	1640.7	1648.7	1652.0	1646.8	1630.3	1601.6	1564.8
22.5°	1516.7	1517.7	1522.8	1541.2	1556.3	1579.4	1591.7	1614.8	1611.0	1600.6	1571.4
25°	1402.7	1397.9	1414.4	1422.9	1453.6	1485.6	1508.7	1534.2	1556.8	1570.5	1561.5
27.5°	1276.3	1266.4	1291.4	1313.6	1335.3	1366.4	1401.2	1442.7	1474.3	1517.2	1527.6
30°	1107.6	1111.9	1135.4	1159.5	1197.2	1246.2	1286.7	1333.4	1383.8	1433.3	1467.7
32.5°	925.7	945.0	957.7	997.8	1029.8	1085.9	1150.0	1211.3	1277.3	1335.3	1393.2
35°	763.5	782.4	803.1	830.0	876.7	930.9	988.8	1067.5	1153.3	1230.2	1293.3
37.5°	660.8	657.5	670.2	690.0	730.1	776.7	845.6	925.7	1028.4	1113.7	1198.6
40°	570.3	568.4	576.9	594.8	623.6	655.6	714.1	782.4	876.2	986.5	1092.5
42.5°	508.1	510.0	513.7	525.1	542.5	567.5	607.5	663.2	747.0	849.3	965.3
45°	460.0	463.3	468.5	474.6	485.9	507.6	532.1	573.6	641.5	728.2	840.4
47.5°	422.3	423.2	428.9	434.6	441.2	454.4	476.0	502.4	554.3	628.3	728.7
50°	393.1	389.8	393.6	397.8	404.9	413.4	426.5	451.1	483.1	540.1	620.7
52.5°	357.3	358.2	361.5	362.4	368.6	377.1	388.8	403.9	432.2	473.7	536.4
55°	323.3	325.7	327.6	330.4	336.1	342.2	351.6	362.9	385.5	419.0	468.0
57.5°	291.3	292.2	293.6	299.8	303.1	308.7	318.1	328.5	343.6	369.5	408.2
60°	258.3	258.3	262.1	264.4	269.1	274.8	281.9	291.7	304.9	325.2	354.9
62.5°	228.1	227.6	228.6	232.8	236.1	241.3	248.4	256.4	268.7	286.1	309.2
65°	198.9	198.0	200.8	201.7	205.5	210.7	216.3	225.3	235.2	248.4	270.1
67.5°	169.7	171.1	173.0	174.9	176.7	182.9	186.6	193.2	201.7	213.0	228.1
70°	146.1	146.1	146.1	147.5	150.4	153.2	157.0	162.1	170.1	179.6	192.8
72.5°	119.7	121.6	123.5	122.1	125.8	127.3	132.0	134.3	141.9	147.1	158.4
75°	98.0	98.0	98.0	100.4	101.8	103.2	106.0	108.9	112.6	120.2	126.3
77.5°	77.3	76.8	77.3	77.8	79.7	81.5	82.5	84.8	88.6	92.4	98.0
80°	56.6	57.5	58.0	58.9	58.9	59.9	60.3	63.6	66.0	68.3	71.6
82.5°	40.5	40.5	40.5	40.5	41.0	41.5	42.9	43.4	43.8	45.7	48.1
85°	25.5	25.0	25.0	25.9	25.5	25.5	26.4	27.3	27.3	27.8	29.2
87.5°	12.3	12.3	12.7	12.3	12.3	12.7	12.7	12.3	12.7	13.2	13.7
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: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1266.4	1262.7	1260.3	1251.8	1244.3	1236.8	1234.4	1235.3	1225.0	1215.1	1210.8
5°	1307.5	1298.0	1289.1	1276.3	1261.3	1244.8	1236.3	1229.7	1213.2	1195.3	1184.9
7.5°	1344.7	1332.4	1316.4	1293.8	1273.0	1248.5	1233.5	1220.7	1197.6	1173.6	1159.0
10°	1378.2	1359.8	1337.6	1308.4	1281.5	1250.0	1227.8	1205.6	1177.4	1147.2	1128.4
12.5°	1406.9	1380.5	1358.8	1319.2	1286.2	1244.8	1217.4	1184.0	1153.8	1116.6	1098.2
15°	1455.9	1410.2	1368.7	1326.3	1287.2	1232.0	1202.8	1160.9	1121.8	1077.4	1056.2
17.5°	1492.2	1442.7	1378.6	1327.2	1283.9	1225.0	1183.0	1133.1	1088.8	1039.7	1011.5
20°	1522.4	1463.5	1393.2	1329.1	1274.5	1204.7	1158.0	1106.7	1052.5	995.4	964.3
22.5°	1540.3	1477.6	1408.3	1322.1	1255.6	1188.2	1126.5	1069.0	1013.8	951.1	918.1
25°	1541.2	1484.7	1411.1	1318.8	1240.5	1163.7	1093.0	1038.3	971.9	914.4	866.8
27.5°	1525.7	1480.9	1409.7	1312.2	1223.1	1134.9	1058.1	998.3	928.0	865.8	818.2
30°	1491.3	1467.7	1398.9	1300.9	1201.4	1104.8	1018.1	947.8	878.1	814.9	765.9
32.5°	1438.0	1437.5	1379.1	1284.8	1178.3	1066.6	976.1	904.9	825.8	764.0	717.8
35°	1365.0	1387.6	1349.4	1259.4	1148.1	1030.8	933.7	852.6	772.5	713.1	669.3
37.5°	1272.1	1324.4	1309.3	1225.4	1109.5	992.6	887.0	802.2	725.4	664.1	621.2
40°	1175.5	1247.1	1257.5	1185.4	1068.0	946.9	833.3	748.9	674.5	619.8	576.4
42.5°	1071.8	1158.5	1191.5	1137.3	1022.8	898.8	785.2	697.1	623.6	570.8	533.5
45°	953.5	1064.2	1115.6	1082.6	971.4	845.1	728.2	639.6	572.7	522.7	493.0
47.5°	846.5	966.7	1032.2	1016.6	916.3	790.9	675.4	589.2	522.7	482.2	454.4
50°	731.5	855.9	939.3	943.1	855.9	732.0	616.0	535.9	476.0	438.8	417.1
52.5°	631.6	748.9	841.8	865.8	788.5	670.7	562.8	483.1	432.2	398.7	379.9
55°	547.2	647.6	748.5	785.2	721.6	608.5	507.1	436.9	387.4	363.9	346.9
57.5°	467.1	555.2	650.9	689.5	649.0	549.6	451.5	389.8	347.8	326.6	313.4
60°	406.3	472.3	555.2	603.8	569.8	483.6	400.6	342.7	309.7	291.3	279.0
62.5°	349.7	406.3	473.2	516.6	502.0	421.8	349.7	300.2	272.9	255.9	247.9
65°	297.9	344.1	398.3	439.3	427.0	365.3	304.5	260.6	238.0	224.4	217.3
67.5°	253.6	288.9	327.6	365.3	354.9	309.2	257.8	222.5	205.0	192.8	188.5
70°	212.1	237.5	271.0	299.8	291.7	255.9	217.3	188.1	173.4	163.5	159.3
72.5°	172.5	192.3	215.9	238.0	233.3	205.0	174.4	154.1	143.8	134.8	131.5
75°	136.2	152.2	167.8	183.3	181.9	158.8	140.0	123.0	114.1	107.0	105.6
77.5°	106.5	116.4	127.7	137.6	135.3	120.2	104.6	94.3	87.2	82.5	82.0
80°	76.8	82.0	89.6	96.2	92.9	87.2	75.4	68.3	63.6	58.9	57.0
82.5°	50.4	55.6	59.4	62.2	59.9	54.7	48.5	44.3	41.9	39.1	38.6
85°	29.2	32.1	33.9	34.9	33.9	30.6	27.3	25.5	23.1	21.7	21.2
87.5°	14.1	14.1	14.1	15.1	13.7	13.7	11.8	10.4	9.9	9.4	8.5
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: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1206.1	1203.3	1193.4	1188.2	1179.7	1171.7	1166.5	1168.9	1170.8	1169.8	1168.4
5°	1175.5	1166.5	1152.9	1141.1	1132.6	1117.0	1110.4	1107.1	1104.3	1101.0	1097.7
7.5°	1141.5	1128.8	1109.5	1094.4	1079.3	1059.5	1049.6	1044.0	1037.9	1030.8	1024.2
10°	1104.8	1085.0	1064.2	1040.7	1021.8	1004.4	988.8	978.5	969.0	960.1	953.5
12.5°	1066.1	1042.6	1015.7	981.3	960.1	933.2	934.2	913.9	897.9	893.2	885.1
15°	1024.7	992.6	960.1	921.9	905.4	882.8	868.7	854.5	841.8	832.8	830.5
17.5°	979.4	936.5	904.9	876.7	849.8	826.7	814.4	803.1	792.3	779.1	778.6
20°	926.2	890.3	855.0	830.9	803.1	779.6	763.5	752.2	743.3	736.2	730.1
22.5°	875.7	835.7	804.1	777.2	749.9	732.0	720.2	709.3	702.3	694.3	688.6
25°	821.0	790.4	755.1	725.4	702.7	690.5	680.1	670.7	666.0	660.8	654.2
27.5°	774.4	740.5	705.6	682.5	661.7	650.9	642.9	635.8	631.6	628.3	624.0
30°	724.4	690.0	664.1	641.5	625.0	614.1	609.4	605.7	600.5	598.6	596.7
32.5°	676.4	646.2	625.0	606.1	590.6	584.4	580.2	576.9	573.1	571.2	567.0
35°	631.6	605.7	584.0	573.1	560.4	554.3	551.0	546.3	542.5	540.6	540.1
37.5°	588.7	565.1	550.5	535.9	529.8	526.5	521.8	518.5	517.0	516.6	516.1
40°	547.2	528.8	516.1	504.8	502.4	496.8	493.0	490.2	490.2	490.6	490.2
42.5°	509.5	493.5	482.6	473.2	470.4	467.6	463.8	464.3	465.2	467.1	465.2
45°	471.3	459.5	451.5	446.8	441.6	438.3	437.9	439.3	439.7	440.2	441.6
47.5°	435.5	428.0	420.4	414.8	412.4	411.9	411.0	413.4	415.7	416.2	418.5
50°	404.4	395.4	389.3	386.0	384.1	383.2	384.1	387.0	388.8	391.2	392.6
52.5°	369.5	363.9	360.1	357.7	357.3	358.2	358.2	361.5	364.8	365.3	365.7
55°	337.9	333.2	332.3	328.0	329.9	329.5	331.8	333.7	336.5	339.4	339.8
57.5°	305.9	301.6	298.8	299.3	299.8	301.6	303.5	306.8	310.1	313.4	313.4
60°	273.8	272.0	270.5	270.5	271.5	274.3	276.7	280.0	281.9	283.7	285.2
62.5°	244.6	242.7	241.3	242.3	245.1	246.5	249.3	250.7	252.6	254.5	255.0
65°	213.5	212.6	214.0	214.9	215.4	217.8	221.1	222.5	224.4	225.3	228.6
67.5°	185.2	185.2	184.8	186.2	189.0	189.5	192.8	196.5	196.5	198.4	200.8
70°	156.5	157.4	158.4	159.3	161.7	162.6	165.0	166.4	168.3	169.7	171.1
72.5°	130.1	130.1	131.0	130.6	132.4	134.8	136.7	138.1	140.0	141.9	143.3
75°	104.2	104.2	105.1	105.6	107.9	110.3	109.8	110.8	112.6	114.5	115.5
77.5°	80.6	79.7	80.6	81.1	82.0	83.9	84.4	85.8	88.1	87.7	88.6
80°	58.0	56.6	58.0	58.4	58.4	60.8	60.8	61.7	63.2	61.7	63.2
82.5°	37.2	36.8	37.7	37.7	38.6	38.2	39.1	39.1	40.5	40.1	40.5
85°	20.7	20.3	20.7	20.3	20.7	21.2	21.2	20.7	20.7	21.7	20.3
87.5°	8.0	7.5	7.1	7.1	6.6	6.1	5.7	5.7	5.7	4.7	4.7
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: P242291

CATALOG NUMBER: S122DRP-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1226.4	1226.4	1226.4	1226.4
2.5°	1163.7	1162.8	1162.8	1158.5
5°	1091.1	1089.7	1087.3	1089.7
7.5°	1022.3	1016.2	1015.2	1010.5
10°	945.5	941.7	941.2	932.3
12.5°	887.0	876.7	879.0	874.8
15°	817.7	817.7	815.9	807.8
17.5°	768.3	767.8	763.5	766.4
20°	724.9	722.1	716.4	716.4
22.5°	683.9	684.4	678.2	680.6
25°	653.7	650.0	647.1	648.5
27.5°	622.6	621.2	620.7	616.5
30°	596.2	591.5	592.5	590.1
32.5°	566.1	565.1	563.7	561.8
35°	539.2	539.7	537.3	538.3
37.5°	515.2	517.0	515.6	515.6
40°	491.6	491.6	491.6	493.0
42.5°	469.0	468.0	467.1	466.6
45°	442.6	444.0	444.5	442.1
47.5°	419.5	419.9	419.5	422.3
50°	395.0	394.0	395.0	394.0
52.5°	369.0	369.5	368.6	368.6
55°	341.7	342.7	342.2	342.2
57.5°	313.9	314.4	315.3	313.0
60°	284.7	287.0	286.6	285.6
62.5°	257.8	258.3	258.3	258.3
65°	230.0	230.9	229.5	230.9
67.5°	199.8	200.3	201.3	201.7
70°	172.0	171.6	173.0	174.4
72.5°	142.8	144.2	143.3	144.2
75°	114.5	115.9	115.5	116.9
77.5°	87.7	88.1	88.1	88.6
80°	63.2	62.2	61.3	63.2
82.5°	39.1	40.1	39.1	38.6
85°	20.3	19.8	18.9	18.9
87.5°	4.7	4.2	4.2	3.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242291
 CATALOG NUMBER: S122DRP-S675D830-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	19.24	20.76	19.61	21.07	21.39	22.50	24.01	22.86	24.33	24.64
	3H	20.65	22.01	21.03	22.34	22.70	23.51	24.87	23.88	25.20	25.56
	4H	21.15	22.43	21.55	22.78	23.16	23.83	25.10	24.23	25.45	25.83
	6H	21.51	22.69	21.92	23.06	23.45	24.02	25.20	24.43	25.57	25.96
	8H	21.62	22.74	22.05	23.13	23.53	24.06	25.19	24.49	25.58	25.98
	12H	21.69	22.77	22.12	23.15	23.58	24.08	25.16	24.51	25.54	25.97
4H	2H	20.10	21.38	20.50	21.73	22.11	22.71	23.98	23.11	24.33	24.71
	3H	21.66	22.72	22.07	23.12	23.52	24.05	25.11	24.46	25.51	25.91
	4H	22.25	23.20	22.68	23.62	24.06	24.56	25.51	24.99	25.93	26.36
	6H	22.70	23.53	23.15	23.97	24.43	24.89	25.72	25.35	26.16	26.62
	8H	22.84	23.61	23.30	24.06	24.52	24.96	25.74	25.43	26.18	26.65
	12H	22.94	23.63	23.42	24.11	24.58	25.00	25.70	25.49	26.18	26.65
8H	4H	22.68	23.46	23.15	23.90	24.37	24.68	25.46	25.15	25.90	26.37
	6H	23.22	23.86	23.71	24.35	24.82	25.12	25.76	25.62	26.25	26.73
	8H	23.41	23.98	23.92	24.49	24.98	25.25	25.83	25.77	26.34	26.83
	12H	23.57	24.07	24.08	24.57	25.13	25.35	25.85	25.85	26.34	26.91
12H	4H	22.74	23.43	23.22	23.91	24.38	24.68	25.37	25.16	25.85	26.32
	6H	23.29	23.87	23.81	24.38	24.87	25.12	25.70	25.64	26.21	26.69
	8H	23.54	24.04	24.05	24.53	25.10	25.30	25.81	25.81	26.30	26.86