

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: P242287

Luminaire Tested: S122DRP-S865D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242287
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-S865D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

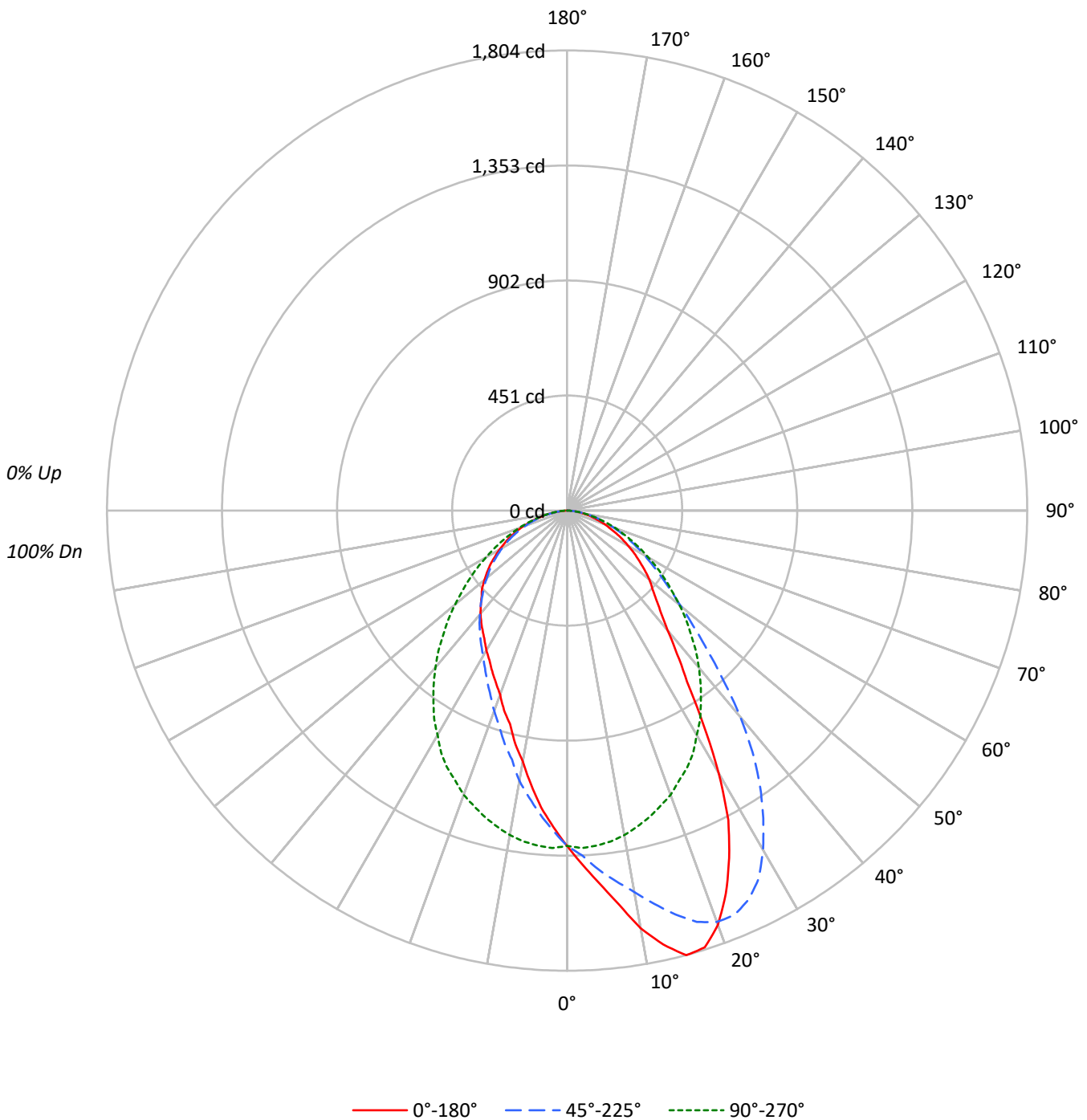
Lumens per Lamp: N/A
Luminaire Lumens: 2899.7 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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

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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	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°	25038	25038	25038	25038	25038
5°	28069	27017	25201	22893	22333
10°	32165	29370	24993	20821	19326
15°	35584	32326	24535	18659	17075
20°	35041	34796	24042	16938	15565
25°	31597	35376	23390	15555	14609
30°	26112	33788	22344	14477	13911
35°	19030	30659	21251	13815	13415
40°	15200	26290	19959	13238	13139
45°	13280	21025	18466	12655	12763
50°	12484	17155	17021	12170	12514
55°	11507	14914	15552	11726	12181
60°	10545	13280	13992	11200	11661
65°	9609	11998	12593	10520	11155
70°	8721	10721	11227	9707	10409
75°	7735	9479	9700	8699	9221
80°	6647	8029	8029	7152	7426
85°	5966	6513	5966	4961	4415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 32209 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.3
10°-20°	364.4	12.6
20°-30°	528.9	18.2
30°-40°	557.5	19.2
40°-50°	493.3	17.0
50°-60°	393.8	13.6
60°-70°	267.5	9.2
70°-80°	136.9	4.7
80°-90°	32.3	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°	1018.5	35.1
0°-40°	1576.0	54.3
0°-60°	2463.0	84.9
0°-90°	2899.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1314	1314	1314	1314	1314	
5°	1468	1413	1318	1197	1168	146
15°	1804	1639	1244	946	866	500
25°	1503	1683	1113	740	695	682
35°	818	1318	914	594	577	530
45°	493	780	686	470	474	386
55°	346	449	468	353	367	311
65°	213	266	279	233	248	212
75°	105	129	132	118	125	112
85°	27	30	27	23	20	31
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°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1390.2	1390.7	1391.7	1383.7	1382.7	1382.7	1375.6	1369.5	1362.4	1352.8	1353.9
5°	1468.0	1473.6	1475.6	1469.5	1460.4	1459.4	1450.8	1436.7	1423.6	1413.0	1405.4
7.5°	1557.9	1560.0	1555.9	1548.9	1542.8	1531.2	1517.0	1503.4	1483.2	1465.0	1451.9
10°	1663.0	1666.1	1657.5	1645.8	1636.2	1622.1	1598.9	1575.1	1546.3	1518.5	1496.3
12.5°	1742.8	1751.4	1739.8	1740.8	1722.6	1701.9	1673.1	1664.0	1620.6	1579.2	1554.9
15°	1804.5	1804.0	1805.0	1795.4	1783.3	1780.2	1750.9	1719.1	1662.0	1639.3	1599.9
17.5°	1795.4	1802.4	1806.5	1803.5	1801.4	1796.9	1784.3	1760.5	1729.2	1690.8	1643.8
20°	1728.7	1738.8	1740.3	1751.9	1758.5	1767.1	1770.6	1765.1	1747.4	1716.6	1677.2
22.5°	1625.6	1626.6	1632.2	1651.9	1668.1	1692.8	1706.0	1730.7	1726.7	1715.6	1684.2
25°	1503.4	1498.3	1516.0	1525.1	1557.9	1592.3	1617.1	1644.3	1668.6	1683.2	1673.6
27.5°	1368.0	1357.4	1384.2	1407.9	1431.1	1464.5	1501.9	1546.3	1580.2	1626.1	1637.3
30°	1187.2	1191.7	1217.0	1242.7	1283.1	1335.7	1379.1	1429.1	1483.2	1536.2	1573.1
32.5°	992.2	1012.9	1026.5	1069.4	1103.8	1163.9	1232.6	1298.3	1369.0	1431.1	1493.3
35°	818.4	838.6	860.8	889.6	939.6	997.7	1059.8	1144.2	1236.2	1318.5	1386.2
37.5°	708.2	704.7	718.4	739.6	782.5	832.5	906.3	992.2	1102.3	1193.7	1284.6
40°	611.3	609.2	618.3	637.5	668.3	702.7	765.3	838.6	939.1	1057.3	1171.0
42.5°	544.6	546.6	550.6	562.8	581.5	608.2	651.2	710.8	800.7	910.3	1034.6
45°	493.0	496.6	502.1	508.7	520.8	544.1	570.3	614.8	687.5	780.5	900.7
47.5°	452.6	453.6	459.7	465.8	472.8	487.0	510.2	538.5	594.1	673.4	781.0
50°	421.3	417.8	421.8	426.4	433.9	443.0	457.2	483.4	517.8	578.9	665.3
52.5°	382.9	383.9	387.5	388.5	395.0	404.1	416.8	432.9	463.2	507.7	574.9
55°	346.5	349.1	351.1	354.1	360.2	366.8	376.9	389.0	413.2	449.1	501.6
57.5°	312.2	313.2	314.7	321.3	324.8	330.9	341.0	352.1	368.3	396.1	437.5
60°	276.8	276.8	280.9	283.4	288.5	294.5	302.1	312.7	326.8	348.6	380.4
62.5°	244.5	244.0	245.0	249.6	253.1	258.6	266.2	274.8	287.9	306.6	331.4
65°	213.2	212.2	215.2	216.2	220.3	225.8	231.9	241.5	252.1	266.2	289.5
67.5°	181.9	183.4	185.4	187.4	189.4	196.0	200.0	207.1	216.2	228.3	244.5
70°	156.6	156.6	156.6	158.1	161.1	164.2	168.2	173.8	182.4	192.5	206.6
72.5°	128.3	130.3	132.4	130.8	134.9	136.4	141.4	144.0	152.1	157.6	169.7
75°	105.1	105.1	105.1	107.6	109.1	110.6	113.7	116.7	120.7	128.8	135.4
77.5°	82.8	82.3	82.8	83.4	85.4	87.4	88.4	90.9	95.0	99.0	105.1
80°	60.6	61.6	62.1	63.1	63.1	64.2	64.7	68.2	70.7	73.2	76.8
82.5°	43.4	43.4	43.4	43.4	43.9	44.5	46.0	46.5	47.0	49.0	51.5
85°	27.3	26.8	26.8	27.8	27.3	27.3	28.3	29.3	29.3	29.8	31.3
87.5°	13.1	13.1	13.6	13.1	13.1	13.6	13.6	13.1	13.6	14.1	14.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1357.4	1353.4	1350.8	1341.7	1333.6	1325.6	1323.0	1324.1	1312.9	1302.3	1297.8
5°	1401.3	1391.2	1381.6	1368.0	1351.8	1334.2	1325.1	1318.0	1300.3	1281.1	1270.0
7.5°	1441.3	1428.1	1410.9	1386.7	1364.5	1338.2	1322.0	1308.4	1283.6	1257.9	1242.2
10°	1477.1	1457.4	1433.7	1402.4	1373.6	1339.7	1316.0	1292.2	1261.9	1229.6	1209.4
12.5°	1507.9	1479.6	1456.4	1414.0	1378.6	1334.2	1304.9	1269.0	1236.7	1196.7	1177.0
15°	1560.5	1511.5	1467.0	1421.5	1379.6	1320.5	1289.2	1244.2	1202.3	1154.8	1132.1
17.5°	1599.4	1546.3	1477.6	1422.6	1376.1	1312.9	1268.0	1214.4	1166.9	1114.4	1084.1
20°	1631.7	1568.6	1493.3	1424.6	1366.0	1291.2	1241.2	1186.1	1128.0	1066.9	1033.6
22.5°	1650.9	1583.7	1509.4	1417.0	1345.8	1273.5	1207.4	1145.7	1086.6	1019.4	984.1
25°	1651.9	1591.3	1512.5	1413.5	1329.6	1247.3	1171.5	1112.9	1041.7	980.0	929.0
27.5°	1635.2	1587.2	1511.0	1406.4	1310.9	1216.5	1134.1	1070.0	994.7	928.0	877.0
30°	1598.4	1573.1	1499.3	1394.3	1287.7	1184.1	1091.2	1015.9	941.1	873.4	820.9
32.5°	1541.3	1540.8	1478.1	1377.1	1262.9	1143.2	1046.2	969.9	885.1	818.9	769.4
35°	1463.0	1487.2	1446.3	1349.8	1230.6	1104.8	1000.7	913.9	828.0	764.3	717.3
37.5°	1363.5	1419.5	1403.4	1313.4	1189.2	1063.9	950.7	859.8	777.5	711.8	665.8
40°	1259.9	1336.7	1347.8	1270.5	1144.7	1014.9	893.1	802.7	722.9	664.3	617.8
42.5°	1148.8	1241.7	1277.1	1219.0	1096.2	963.4	841.6	747.1	668.3	611.8	571.9
45°	1022.0	1140.7	1195.7	1160.4	1041.2	905.8	780.5	685.5	613.8	560.2	528.4
47.5°	907.3	1036.1	1106.3	1089.7	982.1	847.7	723.9	631.5	560.2	516.8	487.0
50°	784.0	917.4	1006.8	1010.8	917.4	784.5	660.3	574.4	510.2	470.3	447.1
52.5°	676.9	802.7	902.2	928.0	845.2	718.9	603.2	517.8	463.2	427.4	407.2
55°	586.5	694.1	802.2	841.6	773.4	652.2	543.6	468.3	415.3	390.0	371.8
57.5°	500.6	595.1	697.6	739.1	695.6	589.0	484.0	417.8	372.8	350.1	335.9
60°	435.5	506.2	595.1	647.1	610.8	518.3	429.4	367.3	331.9	312.2	299.1
62.5°	374.8	435.5	507.2	553.7	538.0	452.1	374.8	321.8	292.5	274.3	265.7
65°	319.3	368.8	426.9	470.8	457.7	391.5	326.3	279.4	255.1	240.5	232.9
67.5°	271.8	309.7	351.1	391.5	380.4	331.4	276.3	238.4	219.7	206.6	202.1
70°	227.3	254.6	290.5	321.3	312.7	274.3	232.9	201.6	185.9	175.3	170.7
72.5°	184.9	206.1	231.4	255.1	250.1	219.7	186.9	165.2	154.1	144.5	140.9
75°	146.0	163.2	179.8	196.5	195.0	170.2	150.0	131.8	122.3	114.7	113.2
77.5°	114.2	124.8	136.9	147.5	145.0	128.8	112.1	101.0	93.5	88.4	87.9
80°	82.3	87.9	96.0	103.1	99.5	93.5	80.8	73.2	68.2	63.1	61.1
82.5°	54.1	59.6	63.7	66.7	64.2	58.6	52.0	47.5	45.0	41.9	41.4
85°	31.3	34.4	36.4	37.4	36.4	32.8	29.3	27.3	24.8	23.2	22.7
87.5°	15.2	15.2	15.2	16.2	14.6	14.6	12.6	11.1	10.6	10.1	9.1
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°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1292.7	1289.7	1279.1	1273.5	1264.4	1255.9	1250.3	1252.8	1254.8	1253.8	1252.3
5°	1259.9	1250.3	1235.6	1223.0	1213.9	1197.3	1190.2	1186.6	1183.6	1180.1	1176.5
7.5°	1223.5	1209.9	1189.2	1173.0	1156.8	1135.6	1125.0	1119.0	1112.4	1104.8	1097.7
10°	1184.1	1162.9	1140.7	1115.4	1095.2	1076.5	1059.8	1048.7	1038.6	1029.0	1022.0
12.5°	1142.7	1117.4	1088.6	1051.8	1029.0	1000.2	1001.2	979.5	962.3	957.3	948.7
15°	1098.2	1063.9	1029.0	988.1	970.4	946.2	931.0	915.9	902.2	892.6	890.1
17.5°	1049.7	1003.8	969.9	939.6	910.8	886.1	872.9	860.8	849.2	835.0	834.5
20°	992.7	954.3	916.4	890.6	860.8	835.6	818.4	806.3	796.7	789.1	782.5
22.5°	938.6	895.7	861.8	833.0	803.7	784.5	771.9	760.3	752.7	744.1	738.1
25°	880.0	847.2	809.3	777.5	753.2	740.1	729.0	718.9	713.8	708.2	701.2
27.5°	830.0	793.6	756.2	731.5	709.3	697.6	689.1	681.5	676.9	673.4	668.8
30°	776.4	739.6	711.8	687.5	669.9	658.2	653.2	649.1	643.6	641.6	639.5
32.5°	724.9	692.6	669.9	649.6	633.0	626.4	621.9	618.3	614.3	612.3	607.7
35°	676.9	649.1	625.9	614.3	600.6	594.1	590.5	585.5	581.5	579.4	578.9
37.5°	631.0	605.7	590.0	574.4	567.8	564.3	559.2	555.7	554.2	553.7	553.2
40°	586.5	566.8	553.2	541.0	538.5	532.4	528.4	525.4	525.4	525.9	525.4
42.5°	546.1	528.9	517.3	507.2	504.2	501.1	497.1	497.6	498.6	500.6	498.6
45°	505.2	492.5	484.0	478.9	473.3	469.8	469.3	470.8	471.3	471.8	473.3
47.5°	466.8	458.7	450.6	444.5	442.0	441.5	440.5	443.0	445.6	446.1	448.6
50°	433.4	423.8	417.3	413.7	411.7	410.7	411.7	414.7	416.8	419.3	420.8
52.5°	396.1	390.0	386.0	383.4	382.9	383.9	383.9	387.5	391.0	391.5	392.0
55°	362.2	357.2	356.1	351.6	353.6	353.1	355.6	357.7	360.7	363.7	364.2
57.5°	327.9	323.3	320.3	320.8	321.3	323.3	325.3	328.9	332.4	335.9	335.9
60°	293.5	291.5	290.0	290.0	291.0	294.0	296.5	300.1	302.1	304.1	305.6
62.5°	262.2	260.2	258.6	259.7	262.7	264.2	267.2	268.8	270.8	272.8	273.3
65°	228.8	227.8	229.3	230.4	230.9	233.4	236.9	238.4	240.5	241.5	245.0
67.5°	198.5	198.5	198.0	199.5	202.6	203.1	206.6	210.7	210.7	212.7	215.2
70°	167.7	168.7	169.7	170.7	173.3	174.3	176.8	178.3	180.3	181.9	183.4
72.5°	139.4	139.4	140.4	139.9	142.0	144.5	146.5	148.0	150.0	152.1	153.6
75°	111.6	111.6	112.7	113.2	115.7	118.2	117.7	118.7	120.7	122.8	123.8
77.5°	86.4	85.4	86.4	86.9	87.9	89.9	90.4	91.9	94.5	94.0	95.0
80°	62.1	60.6	62.1	62.6	62.6	65.2	65.2	66.2	67.7	66.2	67.7
82.5°	39.9	39.4	40.4	40.4	41.4	40.9	41.9	41.9	43.4	42.9	43.4
85°	22.2	21.7	22.2	21.7	22.2	22.7	22.7	22.2	22.2	23.2	21.7
87.5°	8.6	8.1	7.6	7.6	7.1	6.6	6.1	6.1	6.1	5.1	5.1
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: P242287

CATALOG NUMBER: S122DRP-S865D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1314.5	1314.5	1314.5	1314.5
2.5°	1247.3	1246.3	1246.3	1241.7
5°	1169.5	1168.0	1165.4	1168.0
7.5°	1095.7	1089.1	1088.1	1083.1
10°	1013.4	1009.3	1008.8	999.2
12.5°	950.7	939.6	942.1	937.6
15°	876.5	876.5	874.5	865.9
17.5°	823.4	822.9	818.4	821.4
20°	777.0	773.9	767.9	767.9
22.5°	733.0	733.5	726.9	729.5
25°	700.7	696.6	693.6	695.1
27.5°	667.3	665.8	665.3	660.8
30°	639.0	634.0	635.0	632.5
32.5°	606.7	605.7	604.2	602.2
35°	577.9	578.4	575.9	576.9
37.5°	552.2	554.2	552.7	552.7
40°	526.9	526.9	526.9	528.4
42.5°	502.6	501.6	500.6	500.1
45°	474.4	475.9	476.4	473.8
47.5°	449.6	450.1	449.6	452.6
50°	423.3	422.3	423.3	422.3
52.5°	395.5	396.1	395.0	395.0
55°	366.2	367.3	366.8	366.8
57.5°	336.4	336.9	338.0	335.4
60°	305.1	307.6	307.1	306.1
62.5°	276.3	276.8	276.8	276.8
65°	246.5	247.5	246.0	247.5
67.5°	214.2	214.7	215.7	216.2
70°	184.4	183.9	185.4	186.9
72.5°	153.1	154.6	153.6	154.6
75°	122.8	124.3	123.8	125.3
77.5°	94.0	94.5	94.5	95.0
80°	67.7	66.7	65.7	67.7
82.5°	41.9	42.9	41.9	41.4
85°	21.7	21.2	20.2	20.2
87.5°	5.1	4.5	4.5	4.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242287

CATALOG NUMBER: S122DRP-S865D927-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	19.48	21.00	19.85	21.31	21.63	22.74	24.26	23.10	24.57	24.88
	3H	20.89	22.25	21.27	22.58	22.94	23.75	25.11	24.13	25.44	25.80
	4H	21.40	22.67	21.80	23.02	23.40	24.07	25.34	24.47	25.69	26.07
	6H	21.75	22.93	22.16	23.30	23.69	24.26	25.44	24.67	25.81	26.20
	8H	21.86	22.98	22.29	23.37	23.77	24.31	25.43	24.73	25.82	26.22
	12H	21.93	23.01	22.36	23.39	23.82	24.32	25.40	24.75	25.78	26.21
4H	2H	20.34	21.62	20.74	21.97	22.35	22.95	24.23	23.35	24.57	24.95
	3H	21.90	22.96	22.31	23.36	23.76	24.29	25.35	24.70	25.75	26.15
	4H	22.49	23.44	22.92	23.86	24.30	24.80	25.75	25.23	26.17	26.61
	6H	22.94	23.77	23.39	24.21	24.67	25.13	25.96	25.59	26.40	26.86
	8H	23.08	23.85	23.54	24.30	24.76	25.20	25.98	25.67	26.42	26.89
	12H	23.18	23.87	23.66	24.35	24.82	25.25	25.94	25.73	26.42	26.89
8H	4H	22.92	23.70	23.39	24.14	24.61	24.92	25.70	25.39	26.14	26.61
	6H	23.46	24.10	23.95	24.59	25.06	25.36	26.00	25.86	26.49	26.97
	8H	23.65	24.22	24.16	24.73	25.22	25.50	26.07	26.01	26.58	27.07
	12H	23.81	24.32	24.32	24.81	25.37	25.59	26.09	26.10	26.58	27.15
12H	4H	22.98	23.67	23.46	24.15	24.62	24.92	25.61	25.40	26.09	26.56
	6H	23.53	24.11	24.05	24.62	25.11	25.36	25.94	25.88	26.45	26.94
	8H	23.78	24.28	24.29	24.78	25.34	25.54	26.05	26.05	26.54	27.10