

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: P242317

Luminaire Tested: S122DRP-S865D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242317
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-S865D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

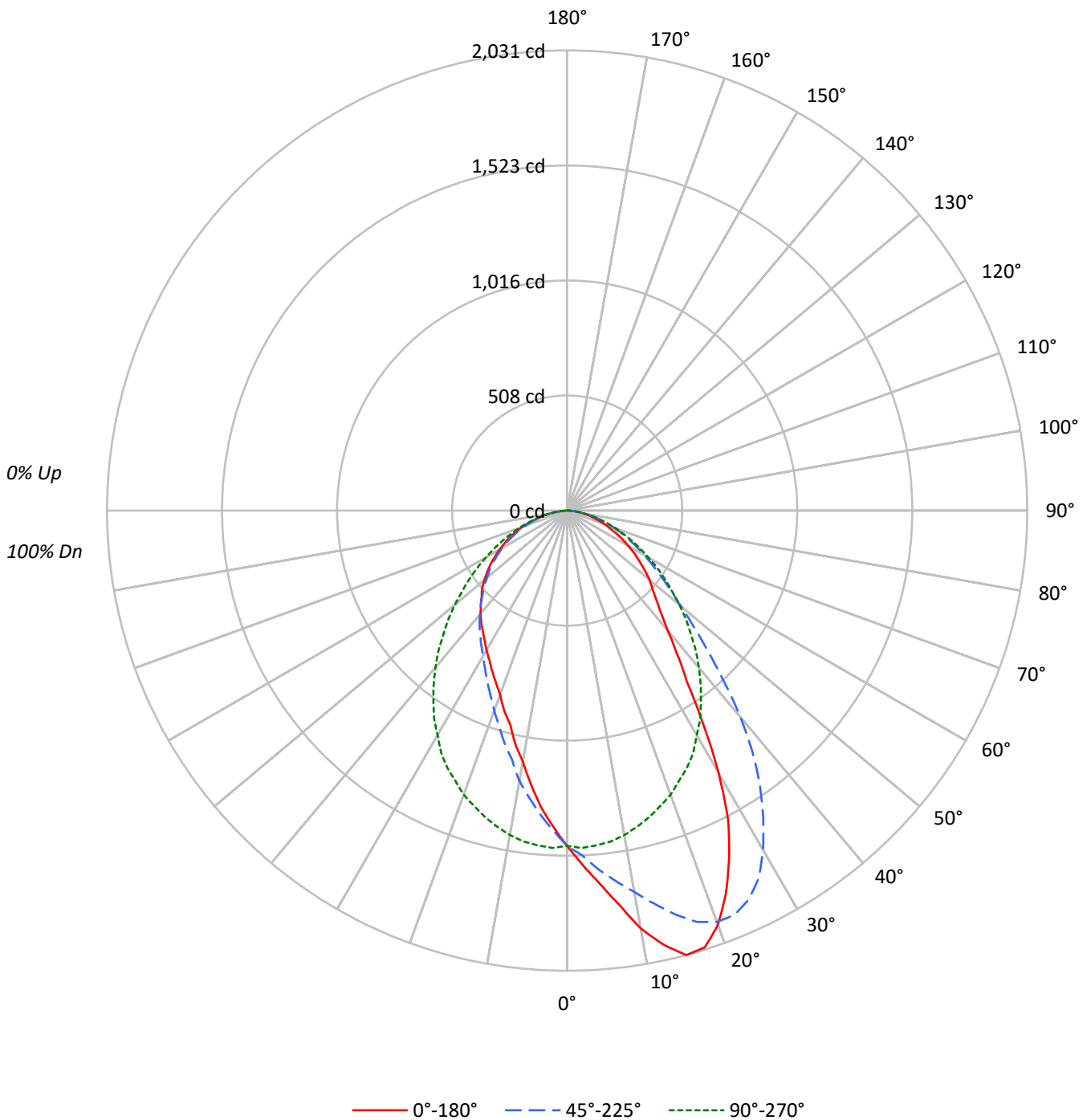
Lumens per Lamp: N/A
Luminaire Lumens: 3264.1 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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	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°	28183	28183	28183	28183	28183
5°	31597	30411	28367	25769	25138
10°	36207	33061	28134	23438	21755
15°	40055	36387	27619	21003	19219
20°	39444	39166	27065	19064	17519
25°	35567	39821	26328	17509	16444
30°	29391	38033	25151	16296	15658
35°	21421	34510	23920	15549	15100
40°	17110	29594	22468	14902	14790
45°	14950	23665	20785	14245	14368
50°	14052	19312	19158	13699	14088
55°	12955	16787	17504	13200	13709
60°	11871	14949	15749	12606	13128
65°	10817	13508	14175	11840	12557
70°	9818	12068	12636	10927	11718
75°	8706	10671	10921	9795	10377
80°	7481	9050	9050	8051	8358
85°	6709	7321	6709	5595	4961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 36258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	4.3
10°-20°	410.2	12.6
20°-30°	595.3	18.2
30°-40°	627.6	19.2
40°-50°	555.3	17.0
50°-60°	443.3	13.6
60°-70°	301.1	9.2
70°-80°	154.1	4.7
80°-90°	36.4	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°	1146.4	35.1
0°-40°	1774.0	54.3
0°-60°	2772.5	84.9
0°-90°	3264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1480	1480	1480	1480	1480	
5°	1652	1590	1484	1348	1315	164
15°	2031	1845	1401	1065	975	563
25°	1692	1895	1253	833	782	768
35°	921	1484	1029	669	649	596
45°	555	878	772	529	533	435
55°	390	506	527	398	413	350
65°	240	300	314	263	279	238
75°	118	145	148	133	141	126
85°	31	34	31	26	23	35
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°	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6
2.5°	1564.9	1565.5	1566.6	1557.5	1556.4	1556.4	1548.4	1541.6	1533.6	1522.8	1524.0
5°	1652.5	1658.7	1661.0	1654.2	1643.9	1642.8	1633.1	1617.2	1602.4	1590.5	1582.0
7.5°	1753.7	1756.0	1751.4	1743.4	1736.6	1723.5	1707.6	1692.3	1669.5	1649.1	1634.3
10°	1872.0	1875.4	1865.7	1852.6	1841.8	1825.9	1799.7	1773.0	1740.6	1709.3	1684.3
12.5°	1961.8	1971.5	1958.4	1959.5	1939.1	1915.7	1883.3	1873.1	1824.2	1777.6	1750.3
15°	2031.2	2030.6	2031.7	2020.9	2007.3	2003.9	1970.9	1935.1	1870.8	1845.2	1800.9
17.5°	2020.9	2028.9	2033.5	2030.0	2027.8	2022.6	2008.4	1981.7	1946.5	1903.2	1850.4
20°	1945.9	1957.3	1959.0	1972.0	1979.4	1989.1	1993.1	1986.8	1966.9	1932.2	1887.9
22.5°	1829.9	1831.0	1837.3	1859.5	1877.6	1905.5	1920.3	1948.2	1943.6	1931.1	1895.8
25°	1692.3	1686.6	1706.5	1716.7	1753.7	1792.4	1820.2	1850.9	1878.2	1894.7	1883.9
27.5°	1539.9	1527.9	1558.1	1584.8	1611.0	1648.5	1690.6	1740.6	1778.7	1830.4	1843.0
30°	1336.3	1341.4	1369.9	1398.9	1444.3	1503.5	1552.4	1608.7	1669.5	1729.2	1770.7
32.5°	1116.8	1140.1	1155.5	1203.8	1242.5	1310.1	1387.5	1461.4	1541.0	1611.0	1680.9
35°	921.2	943.9	969.0	1001.4	1057.7	1123.1	1193.0	1288.0	1391.5	1484.1	1560.3
37.5°	797.2	793.3	808.6	832.5	880.8	937.1	1020.1	1116.8	1240.8	1343.7	1446.0
40°	688.1	685.8	696.0	717.6	752.3	791.0	861.5	943.9	1057.1	1190.2	1318.1
42.5°	613.0	615.3	619.8	633.5	654.5	684.6	733.0	800.1	901.3	1024.7	1164.6
45°	555.0	559.0	565.2	572.6	586.3	612.4	642.0	692.0	773.9	878.5	1013.9
47.5°	509.5	510.6	517.5	524.3	532.2	548.2	574.3	606.2	668.7	758.0	879.1
50°	474.2	470.3	474.8	479.9	488.5	498.7	514.6	544.2	582.9	651.7	748.9
52.5°	431.0	432.2	436.1	437.3	444.7	454.9	469.1	487.3	521.4	571.5	647.1
55°	390.1	392.9	395.2	398.6	405.4	412.8	424.2	437.9	465.1	505.5	564.7
57.5°	351.4	352.6	354.3	361.7	365.6	372.5	383.8	396.3	414.5	445.8	492.4
60°	311.6	311.6	316.2	319.0	324.7	331.5	340.0	352.0	367.9	392.4	428.2
62.5°	275.2	274.7	275.8	280.9	284.9	291.1	299.7	309.3	324.1	345.2	373.0
65°	240.0	238.8	242.2	243.4	247.9	254.2	261.0	271.8	283.8	299.7	325.8
67.5°	204.7	206.4	208.7	211.0	213.2	220.6	225.2	233.1	243.4	257.0	275.2
70°	176.3	176.3	176.3	178.0	181.4	184.8	189.4	195.6	205.3	216.7	232.6
72.5°	144.4	146.7	149.0	147.3	151.8	153.5	159.2	162.1	171.2	177.4	191.1
75°	118.3	118.3	118.3	121.1	122.8	124.5	127.9	131.4	135.9	145.0	152.4
77.5°	93.3	92.7	93.3	93.8	96.1	98.4	99.5	102.4	106.9	111.5	118.3
80°	68.2	69.4	69.9	71.1	71.1	72.2	72.8	76.8	79.6	82.5	86.4
82.5°	48.9	48.9	48.9	48.9	49.5	50.0	51.7	52.3	52.9	55.2	58.0
85°	30.7	30.1	30.1	31.3	30.7	30.7	31.8	33.0	33.0	33.5	35.3
87.5°	14.8	14.8	15.4	14.8	14.8	15.4	15.4	14.8	15.4	15.9	16.5
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°	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6
2.5°	1527.9	1523.4	1520.5	1510.3	1501.2	1492.1	1489.3	1490.4	1477.9	1466.0	1460.8
5°	1577.4	1566.0	1555.2	1539.9	1521.7	1501.8	1491.5	1483.6	1463.7	1442.1	1429.6
7.5°	1622.3	1607.5	1588.2	1560.9	1535.9	1506.3	1488.1	1472.8	1444.9	1415.9	1398.3
10°	1662.7	1640.5	1613.8	1578.5	1546.1	1508.0	1481.3	1454.6	1420.5	1384.1	1361.3
12.5°	1697.4	1665.5	1639.4	1591.6	1551.8	1501.8	1468.8	1428.4	1392.0	1347.1	1324.9
15°	1756.5	1701.4	1651.3	1600.2	1553.0	1486.4	1451.2	1400.6	1353.4	1299.9	1274.3
17.5°	1800.3	1740.6	1663.3	1601.3	1549.0	1477.9	1427.3	1367.0	1313.6	1254.4	1220.3
20°	1836.7	1765.6	1680.9	1603.6	1537.6	1453.4	1397.1	1335.2	1269.8	1201.0	1163.4
22.5°	1858.3	1782.7	1699.1	1595.0	1514.9	1433.5	1359.0	1289.7	1223.1	1147.5	1107.7
25°	1859.5	1791.2	1702.5	1591.1	1496.7	1404.0	1318.7	1252.7	1172.5	1103.2	1045.7
27.5°	1840.7	1786.7	1700.8	1583.1	1475.6	1369.3	1276.6	1204.4	1119.7	1044.6	987.2
30°	1799.2	1770.7	1687.7	1569.4	1449.5	1332.9	1228.3	1143.5	1059.4	983.2	924.0
32.5°	1734.9	1734.3	1663.8	1550.1	1421.6	1286.8	1177.7	1091.8	996.3	921.8	866.0
35°	1646.8	1674.1	1628.0	1519.4	1385.2	1243.6	1126.5	1028.7	932.0	860.4	807.5
37.5°	1534.8	1597.9	1579.7	1478.5	1338.6	1197.6	1070.2	967.8	875.1	801.2	749.5
40°	1418.2	1504.6	1517.1	1430.1	1288.5	1142.4	1005.4	903.6	813.7	747.8	695.4
42.5°	1293.1	1397.7	1437.5	1372.1	1233.9	1084.4	947.4	841.0	752.3	688.6	643.7
45°	1150.4	1284.0	1346.0	1306.2	1172.0	1019.6	878.5	771.6	690.9	630.6	594.8
47.5°	1021.3	1166.3	1245.3	1226.6	1105.4	954.2	814.9	710.8	630.6	581.7	548.2
50°	882.5	1032.6	1133.3	1137.8	1032.6	883.1	743.2	646.5	574.3	529.4	503.2
52.5°	762.0	903.6	1015.6	1044.6	951.3	809.2	679.0	582.9	521.4	481.1	458.3
55°	660.2	781.3	903.0	947.4	870.6	734.1	611.9	527.1	467.4	439.0	418.5
57.5°	563.5	669.9	785.3	831.9	783.0	663.0	544.8	470.3	419.7	394.1	378.1
60°	490.2	569.8	669.9	728.4	687.5	583.4	483.3	413.4	373.6	351.4	336.6
62.5°	421.9	490.2	570.9	623.2	605.6	508.9	421.9	362.2	329.2	308.8	299.1
65°	359.4	415.1	480.5	530.0	515.2	440.7	367.3	314.5	287.2	270.7	262.1
67.5°	305.9	348.6	395.2	440.7	428.2	373.0	311.0	268.4	247.4	232.6	227.5
70°	255.9	286.6	327.0	361.7	352.0	308.8	262.1	226.9	209.3	197.3	192.2
72.5°	208.1	232.0	260.4	287.2	281.5	247.4	210.4	185.9	173.4	162.6	158.7
75°	164.3	183.7	202.4	221.2	219.5	191.6	168.9	148.4	137.6	129.1	127.4
77.5°	128.5	140.5	154.1	166.0	163.2	145.0	126.2	113.7	105.2	99.5	98.9
80°	92.7	98.9	108.0	116.0	112.0	105.2	91.0	82.5	76.8	71.1	68.8
82.5°	60.8	67.1	71.6	75.1	72.2	66.0	58.6	53.5	50.6	47.2	46.6
85°	35.3	38.7	40.9	42.1	40.9	37.0	33.0	30.7	27.9	26.2	25.6
87.5°	17.1	17.1	17.1	18.2	16.5	16.5	14.2	12.5	11.9	11.4	10.2
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°	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6	1479.6
2.5°	1455.1	1451.7	1439.8	1433.5	1423.3	1413.6	1407.4	1410.2	1412.5	1411.4	1409.7
5°	1418.2	1407.4	1390.9	1376.7	1366.4	1347.7	1339.7	1335.7	1332.3	1328.3	1324.4
7.5°	1377.2	1361.9	1338.6	1320.4	1302.2	1278.3	1266.4	1259.5	1252.1	1243.6	1235.7
10°	1332.9	1309.0	1284.0	1255.6	1232.8	1211.8	1193.0	1180.5	1169.1	1158.3	1150.4
12.5°	1286.3	1257.8	1225.4	1183.9	1158.3	1125.9	1127.0	1102.6	1083.3	1077.6	1067.9
15°	1236.2	1197.6	1158.3	1112.3	1092.4	1065.1	1048.0	1030.9	1015.6	1004.8	1001.9
17.5°	1181.6	1129.9	1091.8	1057.7	1025.3	997.4	982.6	969.0	955.9	940.0	939.4
20°	1117.4	1074.2	1031.5	1002.5	969.0	940.5	921.2	907.5	896.7	888.2	880.8
22.5°	1056.5	1008.2	970.1	937.7	904.7	883.1	868.9	855.8	847.3	837.6	830.8
25°	990.6	953.6	911.0	875.1	847.8	833.1	820.5	809.2	803.5	797.2	789.3
27.5°	934.3	893.3	851.3	823.4	798.4	785.3	775.6	767.1	762.0	758.0	752.9
30°	874.0	832.5	801.2	773.9	754.0	740.9	735.3	730.7	724.4	722.2	719.9
32.5°	816.0	779.6	754.0	731.3	712.5	705.1	700.0	696.0	691.5	689.2	684.1
35°	762.0	730.7	704.5	691.5	676.1	668.7	664.7	659.1	654.5	652.2	651.7
37.5°	710.2	681.8	664.2	646.5	639.2	635.2	629.5	625.5	623.8	623.2	622.7
40°	660.2	638.0	622.7	609.0	606.2	599.3	594.8	591.4	591.4	592.0	591.4
42.5°	614.7	595.4	582.3	570.9	567.5	564.1	559.5	560.1	561.2	563.5	561.2
45°	568.6	554.4	544.8	539.1	532.8	528.8	528.3	530.0	530.5	531.1	532.8
47.5°	525.4	516.3	507.2	500.4	497.6	497.0	495.9	498.7	501.5	502.1	505.0
50°	487.9	477.1	469.7	465.7	463.4	462.3	463.4	466.9	469.1	472.0	473.7
52.5°	445.8	439.0	434.4	431.6	431.0	432.2	432.2	436.1	440.1	440.7	441.3
55°	407.7	402.0	400.9	395.8	398.0	397.5	400.3	402.6	406.0	409.4	410.0
57.5°	369.0	363.9	360.5	361.1	361.7	363.9	366.2	370.2	374.2	378.1	378.1
60°	330.4	328.1	326.4	326.4	327.5	330.9	333.8	337.8	340.0	342.3	344.0
62.5°	295.1	292.8	291.1	292.3	295.7	297.4	300.8	302.5	304.8	307.1	307.6
65°	257.6	256.5	258.2	259.3	259.9	262.7	266.7	268.4	270.7	271.8	275.8
67.5°	223.5	223.5	222.9	224.6	228.0	228.6	232.6	237.1	237.1	239.4	242.2
70°	188.8	189.9	191.1	192.2	195.0	196.2	199.0	200.7	203.0	204.7	206.4
72.5°	156.9	156.9	158.1	157.5	159.8	162.6	164.9	166.6	168.9	171.2	172.9
75°	125.7	125.7	126.8	127.4	130.2	133.1	132.5	133.6	135.9	138.2	139.3
77.5°	97.2	96.1	97.2	97.8	98.9	101.2	101.8	103.5	106.3	105.8	106.9
80°	69.9	68.2	69.9	70.5	70.5	73.4	73.4	74.5	76.2	74.5	76.2
82.5°	44.9	44.4	45.5	45.5	46.6	46.1	47.2	47.2	48.9	48.3	48.9
85°	25.0	24.5	25.0	24.5	25.0	25.6	25.6	25.0	25.0	26.2	24.5
87.5°	9.7	9.1	8.5	8.5	8.0	7.4	6.8	6.8	6.8	5.7	5.7
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: P242317

CATALOG NUMBER: S122DRP-S865D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1479.6	1479.6	1479.6	1479.6
2.5°	1404.0	1402.8	1402.8	1397.7
5°	1316.4	1314.7	1311.9	1314.7
7.5°	1233.4	1226.0	1224.8	1219.2
10°	1140.7	1136.1	1135.6	1124.8
12.5°	1070.2	1057.7	1060.5	1055.4
15°	986.6	986.6	984.3	974.6
17.5°	926.9	926.3	921.2	924.6
20°	874.6	871.2	864.3	864.3
22.5°	825.1	825.7	818.3	821.1
25°	788.7	784.2	780.7	782.4
27.5°	751.2	749.5	748.9	743.8
30°	719.3	713.6	714.8	711.9
32.5°	682.9	681.8	680.1	677.8
35°	650.5	651.1	648.2	649.4
37.5°	621.5	623.8	622.1	622.1
40°	593.1	593.1	593.1	594.8
42.5°	565.8	564.7	563.5	563.0
45°	534.0	535.7	536.2	533.4
47.5°	506.1	506.7	506.1	509.5
50°	476.5	475.4	476.5	475.4
52.5°	445.2	445.8	444.7	444.7
55°	412.3	413.4	412.8	412.8
57.5°	378.7	379.3	380.4	377.6
60°	343.5	346.3	345.7	344.6
62.5°	311.0	311.6	311.6	311.6
65°	277.5	278.6	276.9	278.6
67.5°	241.1	241.7	242.8	243.4
70°	207.6	207.0	208.7	210.4
72.5°	172.3	174.0	172.9	174.0
75°	138.2	139.9	139.3	141.0
77.5°	105.8	106.3	106.3	106.9
80°	76.2	75.1	73.9	76.2
82.5°	47.2	48.3	47.2	46.6
85°	24.5	23.9	22.7	22.7
87.5°	5.7	5.1	5.1	4.5
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242317

CATALOG NUMBER: S122DRP-S865D940-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	19.90	21.41	20.26	21.73	22.04	23.15	24.67	23.51	24.98	25.29
	3H	21.30	22.66	21.68	22.99	23.35	24.16	25.52	24.54	25.85	26.21
	4H	21.81	23.08	22.21	23.43	23.81	24.48	25.75	24.88	26.10	26.48
	6H	22.16	23.34	22.57	23.71	24.10	24.67	25.85	25.08	26.22	26.61
	8H	22.27	23.40	22.70	23.79	24.19	24.72	25.84	25.14	26.23	26.63
	12H	22.35	23.42	22.78	23.80	24.23	24.73	25.81	25.16	26.19	26.62
4H	2H	20.76	22.03	21.16	22.38	22.76	23.36	24.64	23.76	24.99	25.36
	3H	22.31	23.37	22.72	23.77	24.17	24.70	25.76	25.11	26.16	26.56
	4H	22.90	23.86	23.33	24.27	24.71	25.21	26.16	25.64	26.58	27.02
	6H	23.35	24.18	23.81	24.62	25.08	25.54	26.37	26.00	26.81	27.27
	8H	23.49	24.26	23.95	24.71	25.17	25.62	26.39	26.08	26.84	27.30
	12H	23.59	24.28	24.07	24.76	25.23	25.66	26.35	26.14	26.83	27.30
8H	4H	23.34	24.11	23.80	24.55	25.02	25.33	26.11	25.80	26.55	27.02
	6H	23.87	24.51	24.37	25.00	25.48	25.77	26.41	26.27	26.90	27.38
	8H	24.06	24.63	24.57	25.14	25.63	25.91	26.48	26.42	26.99	27.48
	12H	24.22	24.73	24.73	25.22	25.78	26.00	26.50	26.51	27.00	27.56
12H	4H	23.39	24.08	23.87	24.56	25.03	25.33	26.02	25.81	26.50	26.97
	6H	23.94	24.52	24.46	25.03	25.52	25.77	26.35	26.29	26.86	27.35
	8H	24.19	24.70	24.70	25.19	25.75	25.95	26.46	26.46	26.95	27.52