

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: P243177

Luminaire Tested: S122DRP-H865D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243177
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-H865D940-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

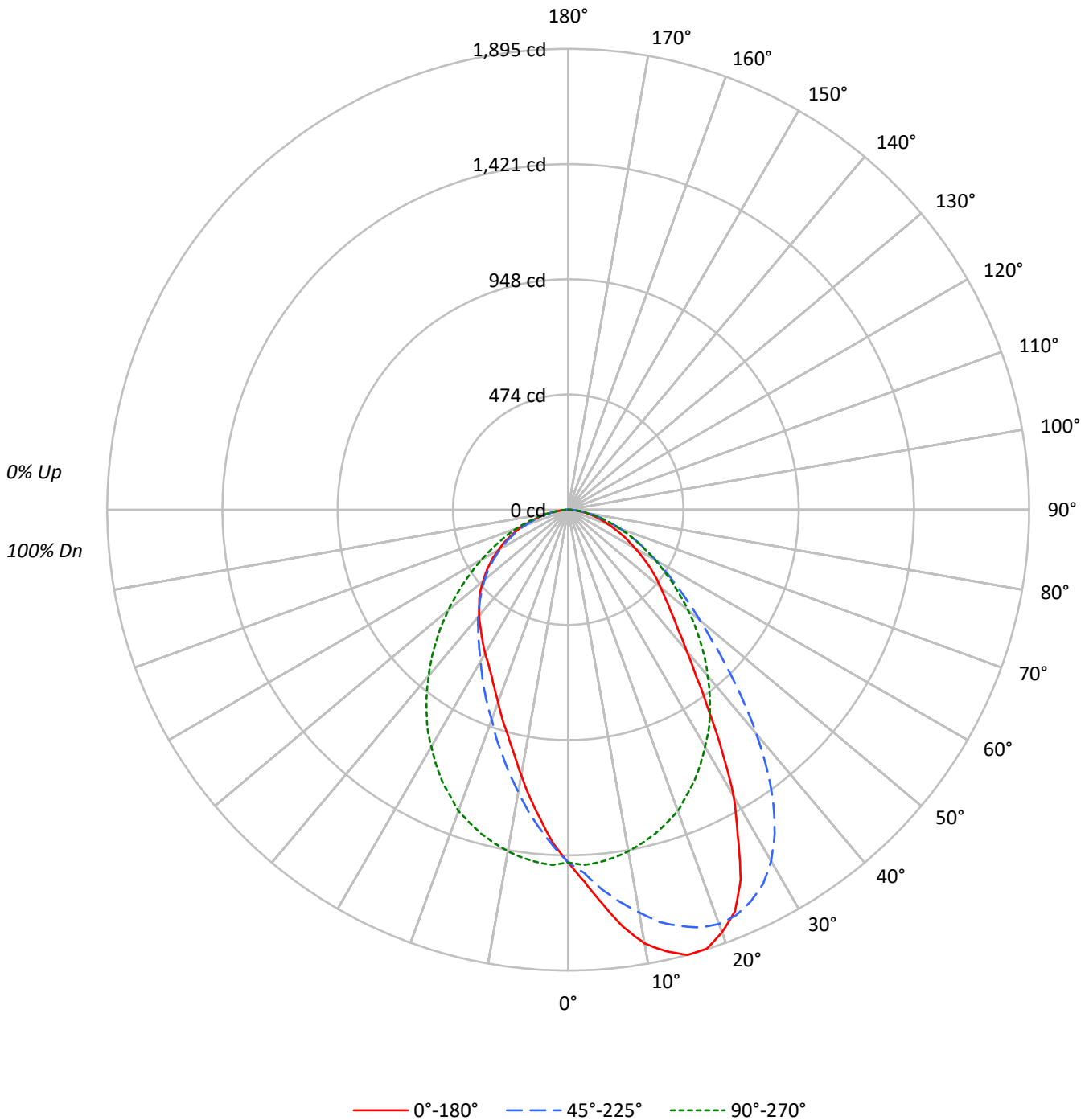
Lumens per Lamp: N/A
Luminaire Lumens: 3219.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	
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°	27634	27634	27634	27634	27634
5°	31128	29937	27832	25205	24516
10°	35039	32515	27583	22815	21456
15°	37375	34951	27211	20593	18909
20°	37484	36754	26720	18622	17065
25°	35254	37341	25830	17152	15731
30°	29926	36704	24752	15825	15022
35°	23397	34184	23597	14945	14459
40°	18798	29893	22175	14340	14178
45°	16171	25052	20712	13741	13913
50°	14668	20891	19060	13284	13524
55°	13516	17956	17368	12765	13161
60°	12149	15832	15646	12171	12560
65°	10939	14157	14062	11398	11953
70°	9746	12558	12497	10437	11183
75°	8772	10944	10745	9243	9803
80°	7656	9071	8655	7536	7656
85°	6578	7518	6447	5048	4218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 34639 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	4.3
10°-20°	397.3	12.3
20°-30°	577.7	17.9
30°-40°	619.7	19.3
40°-50°	555.4	17.3
50°-60°	442.8	13.8
60°-70°	299.5	9.3
70°-80°	152.8	4.7
80°-90°	35.8	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°	1113.2	34.6
0°-40°	1732.9	53.8
0°-60°	2731.2	84.8
0°-90°	3219.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1451	1451	1451	1451	1451	
5°	1628	1566	1456	1318	1282	161
15°	1895	1772	1380	1044	959	531
25°	1677	1777	1229	816	748	755
35°	1006	1470	1015	643	622	637
45°	600	930	769	510	516	470
55°	407	541	523	384	396	363
65°	243	314	312	253	265	241
75°	119	149	146	126	133	127
85°	30	34	30	23	19	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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1531.3	1536.1	1531.9	1530.2	1527.0	1525.9	1517.4	1510.4	1506.1	1494.3	1495.3
5°	1628.0	1638.7	1632.8	1632.3	1620.4	1612.9	1605.4	1594.7	1578.6	1565.7	1555.5
7.5°	1730.0	1724.6	1723.0	1717.1	1708.5	1697.8	1681.1	1665.5	1645.1	1626.3	1612.4
10°	1811.6	1810.0	1812.7	1797.6	1792.3	1775.6	1761.1	1737.0	1710.6	1681.1	1662.9
12.5°	1859.9	1864.7	1868.5	1862.6	1849.7	1844.9	1820.7	1786.9	1777.8	1737.5	1715.5
15°	1895.3	1897.5	1898.0	1891.6	1885.1	1872.8	1858.3	1836.8	1807.3	1772.4	1755.7
17.5°	1893.2	1892.7	1895.9	1892.1	1888.4	1884.6	1873.3	1856.7	1833.6	1800.9	1772.9
20°	1849.2	1858.8	1866.4	1868.0	1867.4	1869.6	1864.2	1853.5	1836.8	1813.2	1781.5
22.5°	1789.0	1785.3	1801.4	1800.3	1807.3	1823.4	1830.4	1826.1	1819.6	1804.6	1779.4
25°	1677.4	1681.1	1692.4	1704.2	1731.6	1741.3	1762.2	1778.3	1780.4	1776.7	1761.1
27.5°	1509.8	1536.7	1542.6	1558.2	1596.3	1628.0	1670.4	1695.6	1731.6	1734.8	1727.8
30°	1360.6	1359.5	1368.6	1396.5	1431.4	1479.2	1534.0	1599.0	1640.3	1668.8	1679.0
32.5°	1176.9	1181.2	1204.9	1239.2	1274.7	1322.4	1385.8	1465.3	1520.6	1579.6	1612.9
35°	1006.2	1019.6	1042.2	1065.8	1104.5	1170.0	1240.3	1306.3	1391.2	1470.1	1523.8
37.5°	865.5	883.8	901.0	923.5	961.1	1011.6	1074.9	1162.4	1246.7	1341.8	1420.7
40°	756.0	763.0	774.8	796.8	822.0	872.5	936.4	1001.9	1093.2	1202.2	1305.8
42.5°	670.1	668.5	681.4	695.3	718.4	756.0	811.8	877.3	968.1	1064.7	1169.4
45°	600.3	600.8	606.2	620.7	638.9	660.4	703.4	765.1	833.8	930.0	1041.1
47.5°	543.4	545.0	553.0	563.2	574.0	593.8	622.3	662.6	727.0	807.5	911.7
50°	495.0	497.7	503.1	510.6	518.7	532.6	554.1	585.8	636.8	705.0	799.5
52.5°	452.1	453.2	454.8	461.8	468.2	481.1	497.2	521.9	562.2	619.1	692.6
55°	407.0	405.9	409.7	415.6	421.5	430.6	447.3	467.1	495.6	540.7	601.4
57.5°	360.8	362.4	365.1	368.3	379.1	388.7	401.1	419.3	441.9	477.3	527.8
60°	318.9	318.9	322.2	326.5	333.4	339.9	351.7	368.3	388.2	415.6	458.0
62.5°	278.1	280.3	283.5	285.6	292.1	300.1	309.3	322.2	340.4	362.4	394.1
65°	242.7	241.6	244.8	249.1	254.0	259.3	269.5	280.3	294.2	314.1	340.4
67.5°	206.2	209.4	210.5	212.6	216.4	223.4	228.2	239.5	250.7	268.5	290.5
70°	175.0	177.2	178.8	181.5	184.7	187.9	192.8	201.9	213.2	225.5	241.1
72.5°	147.1	148.7	147.1	149.8	151.4	154.6	161.1	165.4	174.0	184.7	198.7
75°	119.2	120.3	119.7	122.4	123.0	126.2	129.4	133.2	142.8	148.7	158.4
77.5°	93.4	94.5	95.0	96.1	97.2	98.8	100.4	104.2	109.5	114.9	122.4
80°	69.8	69.8	71.4	71.9	72.5	73.6	76.2	77.3	81.1	82.7	88.6
82.5°	48.3	48.9	49.4	49.4	49.9	51.0	51.5	53.7	54.8	57.5	60.1
85°	30.1	30.6	30.6	30.6	32.2	31.7	31.7	32.8	34.4	34.4	35.4
87.5°	15.0	15.6	15.6	15.6	16.1	16.1	16.1	16.1	16.1	17.2	16.6
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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1494.8	1494.3	1492.1	1482.5	1474.9	1465.3	1463.7	1462.0	1448.6	1434.1	1429.8
5°	1547.4	1537.8	1524.3	1508.2	1492.1	1474.4	1464.2	1455.6	1435.2	1412.7	1399.8
7.5°	1599.0	1580.2	1559.2	1534.0	1507.2	1478.7	1460.4	1443.3	1415.3	1385.8	1368.1
10°	1643.0	1617.8	1588.8	1555.5	1518.4	1479.8	1452.9	1426.1	1390.6	1354.7	1331.0
12.5°	1679.5	1647.3	1609.2	1564.1	1530.2	1477.1	1439.5	1404.1	1364.9	1318.2	1292.4
15°	1707.4	1675.7	1624.2	1578.6	1534.0	1463.1	1417.5	1379.9	1327.3	1281.6	1240.8
17.5°	1741.3	1696.1	1645.1	1579.6	1530.2	1449.2	1397.6	1348.8	1291.8	1238.2	1193.0
20°	1756.3	1709.0	1654.3	1581.2	1518.4	1434.1	1365.4	1318.2	1249.4	1187.7	1136.7
22.5°	1758.4	1713.3	1653.7	1576.4	1498.0	1412.1	1333.2	1271.4	1202.7	1137.2	1079.8
25°	1749.3	1706.4	1644.6	1567.8	1475.5	1388.5	1300.4	1229.0	1149.6	1081.9	1023.4
27.5°	1724.6	1689.7	1631.2	1549.0	1452.4	1352.0	1255.9	1178.0	1099.6	1022.8	967.0
30°	1684.9	1661.8	1611.3	1524.3	1422.9	1312.2	1216.1	1125.4	1040.6	968.6	908.5
32.5°	1633.9	1622.6	1580.7	1494.8	1392.8	1268.8	1168.4	1074.9	982.6	914.4	852.6
35°	1568.9	1574.8	1539.4	1461.5	1354.7	1224.7	1112.5	1014.8	924.6	852.1	795.2
37.5°	1484.6	1513.6	1491.0	1418.0	1305.8	1180.2	1054.0	955.7	861.2	791.4	741.5
40°	1390.1	1441.1	1430.4	1369.2	1253.2	1128.1	997.6	891.8	799.5	733.4	685.7
42.5°	1279.0	1353.1	1364.9	1309.6	1201.1	1063.1	934.3	832.2	743.1	678.1	632.5
45°	1154.4	1246.2	1285.9	1242.4	1140.4	1000.3	869.3	768.9	680.8	625.5	587.4
47.5°	1029.3	1139.9	1193.6	1172.6	1069.6	933.2	804.9	706.6	623.4	575.0	539.1
50°	905.8	1024.5	1102.8	1088.9	999.8	869.3	739.9	643.2	567.0	522.4	491.8
52.5°	797.3	909.6	994.9	1001.9	921.9	796.3	671.2	581.5	516.5	476.3	450.5
55°	690.5	794.7	888.1	905.3	840.3	719.5	607.8	523.0	463.9	430.6	409.7
57.5°	594.9	689.4	782.3	812.4	759.8	650.8	539.6	465.0	414.0	388.2	369.9
60°	513.8	599.2	679.2	709.8	673.8	574.5	477.3	410.7	368.3	345.2	330.7
62.5°	443.0	509.0	579.9	613.7	589.5	503.1	418.3	359.2	324.8	305.0	293.7
65°	379.1	430.1	485.9	525.1	498.3	433.8	363.0	312.0	283.0	264.7	256.7
67.5°	320.0	362.4	407.0	438.1	424.7	366.2	306.6	266.9	242.7	228.7	221.2
70°	266.3	298.0	334.0	358.1	348.5	303.4	256.1	224.4	204.0	194.4	187.9
72.5°	218.5	238.9	266.3	286.2	276.0	244.3	210.5	185.2	170.2	158.9	154.1
75°	173.4	191.1	210.5	223.9	215.8	192.2	165.4	146.0	135.8	128.9	125.6
77.5°	131.5	145.5	158.9	165.4	161.6	144.4	126.2	111.1	102.6	98.3	94.5
80°	94.5	102.6	111.7	117.6	115.4	103.6	90.7	78.9	75.2	69.8	68.7
82.5°	63.4	69.8	71.9	74.6	73.0	67.7	58.5	51.5	48.3	45.6	45.1
85°	37.6	39.2	41.9	41.9	40.3	36.5	31.7	29.5	26.3	25.8	24.2
87.5°	16.6	16.6	16.6	16.6	16.6	15.6	13.4	12.3	11.3	10.7	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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1426.1	1420.7	1413.2	1404.6	1397.1	1385.3	1381.5	1381.5	1384.2	1381.0	1378.3
5°	1389.0	1378.3	1367.6	1350.9	1336.9	1318.2	1312.8	1307.4	1306.9	1301.5	1294.5
7.5°	1349.3	1333.2	1311.2	1287.5	1272.5	1252.1	1240.8	1237.6	1227.4	1217.7	1206.5
10°	1303.1	1278.4	1252.1	1229.6	1205.9	1179.6	1166.2	1157.1	1146.9	1135.1	1127.0
12.5°	1247.3	1219.4	1195.2	1168.9	1149.0	1112.0	1107.7	1095.9	1075.5	1057.7	1051.3
15°	1212.9	1164.1	1136.7	1112.5	1082.4	1044.3	1030.4	1017.5	998.1	986.9	977.7
17.5°	1152.2	1108.2	1073.9	1041.6	1012.6	983.1	962.2	951.4	935.9	926.2	917.1
20°	1096.9	1049.2	1013.2	975.6	945.5	918.7	901.0	887.5	879.5	869.8	860.7
22.5°	1041.1	991.2	956.8	918.7	883.2	867.1	846.2	834.9	824.2	816.7	807.0
25°	976.1	936.4	893.4	863.9	832.8	816.1	796.3	785.5	776.9	768.3	763.5
27.5°	918.1	877.9	838.1	808.6	782.3	766.2	753.8	743.6	732.9	726.5	722.7
30°	858.0	821.0	786.1	757.6	737.2	719.5	712.0	702.3	694.2	691.6	685.7
32.5°	804.3	763.0	735.1	709.3	692.1	679.7	674.4	664.2	662.6	659.9	656.7
35°	750.6	715.2	688.3	666.3	651.8	642.7	635.7	633.0	630.4	627.7	625.0
37.5°	697.5	669.5	644.3	626.6	614.8	607.8	606.2	600.8	600.3	596.5	596.5
40°	649.7	621.2	603.5	589.5	579.9	576.7	572.4	571.3	569.7	568.6	570.8
42.5°	601.9	582.6	567.5	553.0	545.5	542.8	541.8	540.1	539.1	542.3	543.4
45°	557.3	540.7	527.8	517.6	513.3	510.1	510.1	511.7	511.2	512.8	512.8
47.5°	516.0	501.0	490.2	486.5	481.1	480.0	480.5	480.0	482.7	484.8	487.0
50°	476.8	463.4	454.8	451.0	449.9	448.3	450.5	451.6	453.2	455.3	456.4
52.5°	433.3	426.9	421.5	417.7	417.2	417.7	417.2	421.0	422.6	425.8	425.2
55°	396.3	391.4	387.7	383.4	382.8	384.4	385.5	388.7	390.9	393.6	393.0
57.5°	361.4	357.6	353.3	352.2	351.7	352.2	357.1	356.5	359.7	361.9	363.0
60°	323.2	320.5	316.8	316.8	318.4	319.5	321.1	323.8	327.0	326.5	330.2
62.5°	288.3	285.1	284.0	285.6	285.1	287.8	289.4	289.4	293.7	295.3	296.4
65°	253.4	252.4	250.7	250.7	252.4	252.9	255.6	257.2	258.8	262.0	264.7
67.5°	220.7	218.0	218.0	216.9	219.1	220.7	222.3	224.4	225.5	229.3	230.9
70°	186.3	185.2	184.7	185.8	185.8	187.4	190.1	192.8	194.9	195.4	198.7
72.5°	153.0	153.0	153.0	154.6	155.7	157.3	157.9	160.0	163.2	163.8	165.4
75°	123.0	123.5	123.0	123.5	124.0	125.6	126.7	128.9	131.0	131.5	132.6
77.5°	95.0	94.0	92.9	94.5	95.6	98.8	98.3	99.3	101.5	100.4	101.5
80°	66.6	68.2	66.0	69.3	69.3	68.7	69.8	71.4	70.9	71.9	70.9
82.5°	45.1	43.5	43.5	45.1	45.6	44.0	45.1	45.6	46.2	45.1	44.6
85°	24.7	24.2	25.2	23.6	24.2	23.1	23.1	22.0	23.1	22.0	20.9
87.5°	9.1	8.6	9.1	7.5	7.0	6.4	5.9	5.9	4.8	4.8	4.8
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: P243177

CATALOG NUMBER: S122DRP-H865D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1450.8	1450.8	1450.8	1450.8
2.5°	1382.0	1376.1	1373.5	1375.6
5°	1287.0	1288.6	1279.0	1282.2
7.5°	1204.9	1197.9	1200.0	1196.3
10°	1117.9	1114.1	1108.2	1109.3
12.5°	1059.4	1034.1	1032.5	1027.7
15°	977.2	963.2	960.0	958.9
17.5°	911.7	899.9	904.2	901.0
20°	852.6	853.2	846.2	841.9
22.5°	800.6	799.5	796.8	792.5
25°	756.5	756.5	750.1	748.5
27.5°	716.3	717.3	712.0	712.0
30°	686.2	682.4	681.9	683.0
32.5°	656.1	651.8	652.4	651.8
35°	623.9	625.0	623.4	621.8
37.5°	596.5	596.5	596.5	594.9
40°	569.7	570.8	569.1	570.2
42.5°	542.8	543.4	543.4	541.2
45°	516.0	515.4	514.4	516.5
47.5°	488.1	488.1	487.5	488.6
50°	457.5	458.5	456.9	456.4
52.5°	426.3	426.9	426.3	427.4
55°	394.6	394.6	395.2	396.3
57.5°	361.9	365.6	363.0	365.1
60°	329.7	330.2	330.7	329.7
62.5°	299.1	298.5	299.1	300.7
65°	265.8	266.9	266.3	265.2
67.5°	233.0	232.0	233.6	232.0
70°	198.1	200.3	198.7	200.8
72.5°	166.4	165.9	167.0	164.3
75°	133.2	133.2	133.7	133.2
77.5°	102.0	100.9	100.4	98.8
80°	70.3	70.3	68.2	69.8
82.5°	43.0	43.5	44.0	40.8
85°	20.4	20.4	19.9	19.3
87.5°	4.3	4.3	4.8	5.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243177

CATALOG NUMBER: S122DRP-H865D940-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	20.18	21.70	20.54	22.02	22.33	23.02	24.54	23.38	24.85	25.17
	3H	21.53	22.90	21.91	23.23	23.59	24.04	25.40	24.42	25.73	26.09
	4H	22.02	23.30	22.42	23.65	24.03	24.36	25.65	24.76	25.99	26.37
	6H	22.37	23.55	22.78	23.92	24.31	24.56	25.74	24.97	26.11	26.50
	8H	22.47	23.60	22.90	23.99	24.39	24.60	25.73	25.03	26.12	26.52
	12H	22.54	23.62	22.97	24.00	24.43	24.62	25.70	25.05	26.08	26.51
4H	2H	21.06	22.34	21.46	22.69	23.07	23.26	24.54	23.66	24.89	25.27
	3H	22.56	23.62	22.97	24.02	24.42	24.63	25.69	25.04	26.09	26.49
	4H	23.13	24.08	23.56	24.50	24.94	25.14	26.10	25.58	26.52	26.96
	6H	23.56	24.40	24.02	24.84	25.30	25.48	26.31	25.93	26.75	27.21
	8H	23.70	24.48	24.16	24.92	25.39	25.55	26.33	26.01	26.77	27.24
	12H	23.80	24.49	24.28	24.97	25.44	25.59	26.28	26.07	26.76	27.23
8H	4H	23.56	24.34	24.03	24.79	25.25	25.28	26.06	25.74	26.50	26.97
	6H	24.09	24.73	24.58	25.22	25.70	25.72	26.36	26.22	26.86	27.33
	8H	24.27	24.85	24.79	25.36	25.85	25.86	26.43	26.37	26.94	27.43
	12H	24.43	24.94	24.94	25.43	25.99	25.95	26.45	26.46	26.95	27.51
12H	4H	23.62	24.31	24.10	24.79	25.26	25.27	25.97	25.76	26.45	26.92
	6H	24.16	24.74	24.68	25.25	25.74	25.72	26.30	26.24	26.81	27.30
	8H	24.40	24.91	24.91	25.40	25.97	25.90	26.41	26.41	26.90	27.47