

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: P242318

Luminaire Tested: S122DRP-S1005D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242318
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-S1005D940-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

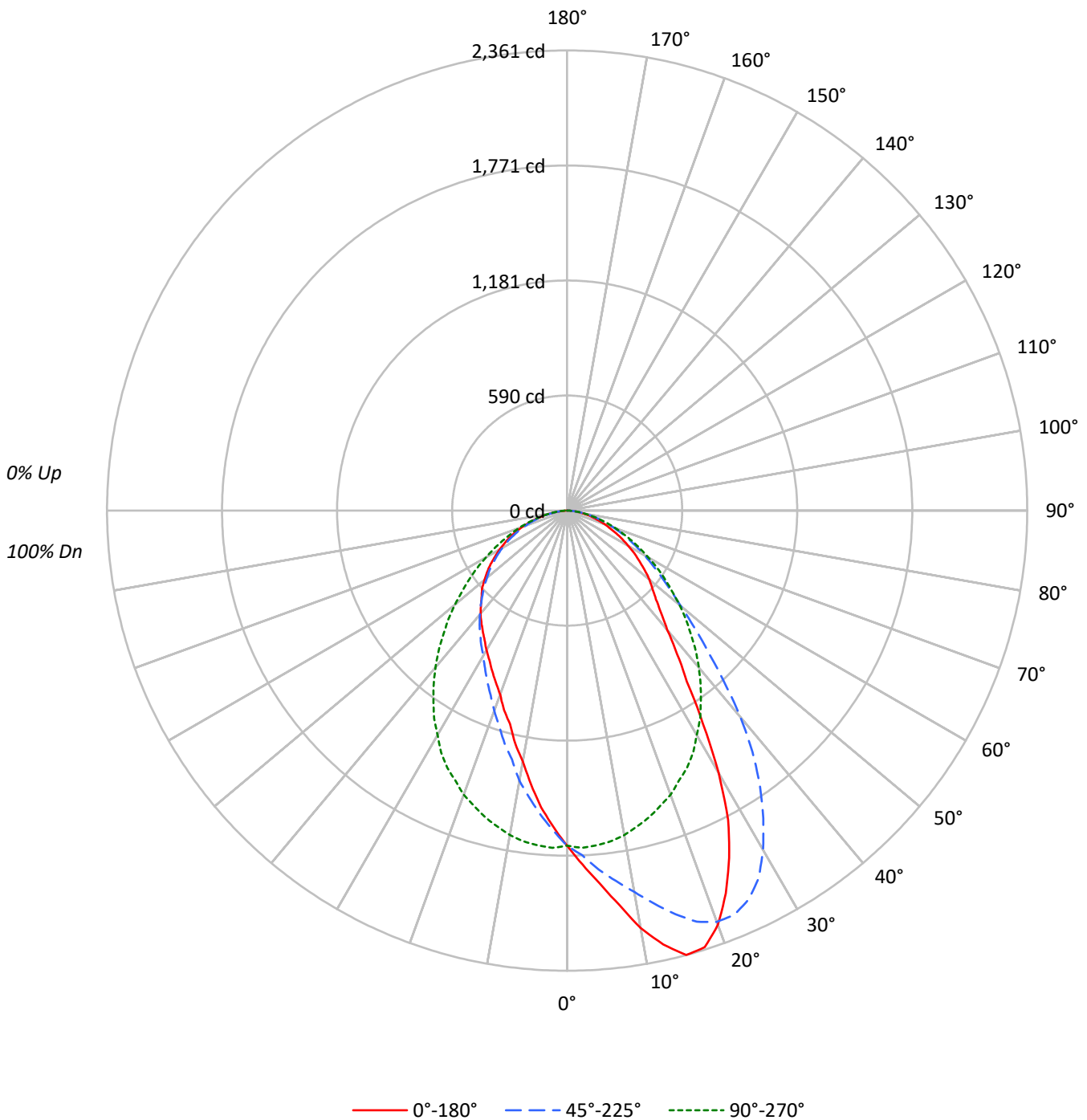
Lumens per Lamp: N/A
Luminaire Lumens: 3793.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45					43				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32754	32754	32754	32754	32754
5°	36721	35342	32968	29948	29214
10°	42079	38424	32697	27239	25283
15°	46550	42289	32098	24409	22336
20°	45841	45519	31453	22157	20361
25°	41334	46279	30598	20348	19113
30°	34157	44202	29231	18939	18198
35°	24895	40109	27799	18072	17549
40°	19882	34393	26111	17321	17189
45°	17375	27503	24158	16556	16699
50°	16334	22444	22266	15922	16372
55°	15057	19510	20344	15339	15934
60°	13798	17372	18301	14651	15257
65°	12570	15698	16473	13760	14594
70°	11411	14023	14686	12698	13617
75°	10119	12401	12695	11378	12062
80°	8699	10508	10508	9357	9719
85°	7802	8523	7802	6491	5770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 42138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	4.3
10°-20°	476.7	12.6
20°-30°	691.9	18.2
30°-40°	729.3	19.2
40°-50°	645.3	17.0
50°-60°	515.2	13.6
60°-70°	349.9	9.2
70°-80°	179.1	4.7
80°-90°	42.3	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°	1332.4	35.1
0°-40°	2061.7	54.3
0°-60°	3222.2	84.9
0°-90°	3793.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1720	1720	1720	1720	1720	
5°	1920	1848	1724	1566	1528	191
15°	2361	2144	1628	1238	1133	654
25°	1967	2202	1456	968	909	892
35°	1071	1725	1196	777	755	693
45°	645	1021	897	615	620	506
55°	453	588	613	462	480	406
65°	279	348	366	305	324	277
75°	138	168	172	155	164	147
85°	36	39	36	30	26	41
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°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1818.7	1819.4	1820.7	1810.1	1808.8	1808.8	1799.5	1791.6	1782.4	1769.8	1771.1
5°	1920.5	1927.7	1930.4	1922.5	1910.6	1909.2	1898.0	1879.5	1862.3	1848.4	1838.5
7.5°	2038.1	2040.8	2035.5	2026.2	2018.3	2003.1	1984.6	1966.7	1940.3	1916.5	1899.3
10°	2175.6	2179.5	2168.3	2153.1	2140.5	2122.0	2091.6	2060.6	2022.9	1986.6	1957.5
12.5°	2280.0	2291.2	2276.0	2277.3	2253.6	2226.5	2188.8	2176.9	2120.1	2065.9	2034.1
15°	2360.6	2360.0	2361.3	2348.7	2332.9	2328.9	2290.6	2248.9	2174.3	2144.5	2093.0
17.5°	2348.7	2358.0	2363.3	2359.3	2356.6	2350.7	2334.2	2303.1	2262.1	2211.9	2150.5
20°	2261.5	2274.7	2276.7	2291.9	2300.5	2311.7	2316.3	2309.1	2285.9	2245.6	2194.1
22.5°	2126.7	2128.0	2135.3	2161.0	2182.2	2214.6	2231.7	2264.1	2258.8	2244.3	2203.3
25°	1966.7	1960.1	1983.3	1995.2	2038.1	2083.1	2115.4	2151.1	2182.8	2202.0	2189.5
27.5°	1789.6	1775.7	1810.8	1841.8	1872.2	1915.9	1964.8	2022.9	2067.2	2127.3	2141.9
30°	1553.0	1559.0	1592.0	1625.7	1678.6	1747.3	1804.2	1869.6	1940.3	2009.7	2057.9
32.5°	1297.9	1325.0	1342.9	1399.1	1444.0	1522.6	1612.5	1698.4	1790.9	1872.2	1953.5
35°	1070.6	1097.0	1126.1	1163.8	1229.2	1305.2	1386.5	1496.9	1617.1	1724.9	1813.4
37.5°	926.5	921.9	939.8	967.5	1023.7	1089.1	1185.6	1297.9	1442.0	1561.6	1680.6
40°	799.6	797.0	808.9	834.0	874.3	919.3	1001.2	1097.0	1228.6	1383.2	1531.9
42.5°	712.4	715.1	720.3	736.2	760.7	795.7	851.9	929.8	1047.5	1190.9	1353.5
45°	645.0	649.6	656.9	665.5	681.4	711.8	746.1	804.3	899.4	1021.0	1178.3
47.5°	592.1	593.5	601.4	609.3	618.6	637.1	667.5	704.5	777.2	880.9	1021.7
50°	551.2	546.5	551.8	557.8	567.7	579.6	598.1	632.4	677.4	757.4	870.4
52.5°	500.9	502.3	506.9	508.2	516.8	528.7	545.2	566.4	606.0	664.2	752.1
55°	453.4	456.7	459.3	463.3	471.2	479.8	493.0	508.9	540.6	587.5	656.2
57.5°	408.4	409.7	411.7	420.3	424.9	432.9	446.1	460.6	481.8	518.1	572.3
60°	362.2	362.2	367.4	370.7	377.4	385.3	395.2	409.1	427.6	456.0	497.6
62.5°	319.9	319.2	320.5	326.5	331.1	338.4	348.3	359.5	376.7	401.1	433.5
65°	278.9	277.6	281.5	282.9	288.1	295.4	303.3	315.9	329.8	348.3	378.7
67.5°	237.9	239.9	242.5	245.2	247.8	256.4	261.7	271.0	282.9	298.7	319.9
70°	204.9	204.9	204.9	206.9	210.8	214.8	220.1	227.3	238.6	251.8	270.3
72.5°	167.9	170.5	173.1	171.2	176.5	178.4	185.0	188.3	198.9	206.2	222.1
75°	137.5	137.5	137.5	140.8	142.7	144.7	148.7	152.7	157.9	168.5	177.1
77.5°	108.4	107.7	108.4	109.0	111.7	114.3	115.7	119.0	124.2	129.5	137.5
80°	79.3	80.6	81.3	82.6	82.6	83.9	84.6	89.2	92.5	95.8	100.5
82.5°	56.8	56.8	56.8	56.8	57.5	58.2	60.1	60.8	61.5	64.1	67.4
85°	35.7	35.0	35.0	36.3	35.7	35.7	37.0	38.3	38.3	39.0	41.0
87.5°	17.2	17.2	17.8	17.2	17.2	17.8	17.8	17.2	17.8	18.5	19.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1775.7	1770.5	1767.2	1755.3	1744.7	1734.1	1730.8	1732.1	1717.6	1703.7	1697.8
5°	1833.2	1820.0	1807.5	1789.6	1768.5	1745.3	1733.5	1724.2	1701.1	1676.0	1661.4
7.5°	1885.5	1868.3	1845.8	1814.1	1785.0	1750.6	1729.5	1711.6	1679.3	1645.6	1625.1
10°	1932.4	1906.6	1875.5	1834.6	1796.9	1752.6	1721.6	1690.5	1650.8	1608.5	1582.1
12.5°	1972.7	1935.7	1905.3	1849.8	1803.5	1745.3	1707.0	1660.1	1617.8	1565.6	1539.8
15°	2041.4	1977.3	1919.2	1859.7	1804.8	1727.5	1686.5	1627.7	1572.9	1510.7	1481.0
17.5°	2092.3	2022.9	1933.0	1861.0	1800.2	1717.6	1658.8	1588.7	1526.6	1457.9	1418.2
20°	2134.6	2052.0	1953.5	1863.6	1787.0	1689.2	1623.7	1551.7	1475.7	1395.7	1352.1
22.5°	2159.7	2071.8	1974.7	1853.7	1760.5	1666.0	1579.5	1498.8	1421.5	1333.6	1287.4
25°	2161.0	2081.7	1978.6	1849.1	1739.4	1631.7	1532.5	1455.9	1362.7	1282.1	1215.3
27.5°	2139.2	2076.4	1976.7	1839.9	1714.9	1591.4	1483.6	1399.7	1301.2	1214.0	1147.3
30°	2091.0	2057.9	1961.5	1824.0	1684.5	1549.1	1427.5	1329.0	1231.2	1142.6	1073.9
32.5°	2016.3	2015.6	1933.7	1801.5	1652.2	1495.5	1368.7	1268.9	1157.8	1071.3	1006.5
35°	1913.9	1945.6	1892.1	1765.8	1609.9	1445.3	1309.2	1195.5	1083.2	999.9	938.4
37.5°	1783.7	1857.0	1835.9	1718.3	1555.7	1391.8	1243.8	1124.8	1017.1	931.2	871.0
40°	1648.2	1748.7	1763.2	1662.1	1497.5	1327.7	1168.4	1050.1	945.7	869.0	808.2
42.5°	1502.8	1624.4	1670.7	1594.7	1434.1	1260.3	1101.0	977.4	874.3	800.3	748.1
45°	1336.9	1492.2	1564.3	1518.0	1362.0	1184.9	1021.0	896.8	803.0	732.9	691.3
47.5°	1186.9	1355.4	1447.3	1425.5	1284.7	1108.9	947.0	826.1	732.9	676.1	637.1
50°	1025.7	1200.1	1317.1	1322.4	1200.1	1026.3	863.8	751.4	667.5	615.3	584.9
52.5°	885.6	1050.1	1180.3	1214.0	1105.6	940.4	789.1	677.4	606.0	559.1	532.7
55°	767.3	908.0	1049.5	1101.0	1011.8	853.2	711.1	612.6	543.2	510.2	486.4
57.5°	654.9	778.5	912.7	966.8	910.0	770.6	633.1	546.5	487.7	458.0	439.5
60°	569.7	662.2	778.5	846.6	799.0	678.0	561.7	480.4	434.2	408.4	391.2
62.5°	490.4	569.7	663.5	724.3	703.8	591.5	490.4	421.0	382.6	358.9	347.6
65°	417.7	482.4	558.4	615.9	598.7	512.2	426.9	365.5	333.7	314.6	304.7
67.5°	355.5	405.1	459.3	512.2	497.6	433.5	361.5	311.9	287.5	270.3	264.3
70°	297.4	333.1	380.0	420.3	409.1	358.9	304.7	263.7	243.2	229.3	223.4
72.5°	241.9	269.6	302.7	333.7	327.1	287.5	244.5	216.1	201.6	189.0	184.4
75°	191.0	213.5	235.3	257.1	255.1	222.7	196.3	172.5	159.9	150.0	148.0
77.5°	149.4	163.2	179.1	193.0	189.7	168.5	146.7	132.2	122.3	115.7	115.0
80°	107.7	115.0	125.6	134.8	130.2	122.3	105.7	95.8	89.2	82.6	80.0
82.5°	70.7	78.0	83.3	87.2	83.9	76.7	68.1	62.1	58.8	54.9	54.2
85°	41.0	44.9	47.6	48.9	47.6	43.0	38.3	35.7	32.4	30.4	29.7
87.5°	19.8	19.8	19.8	21.1	19.2	19.2	16.5	14.5	13.9	13.2	11.9
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°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1691.2	1687.2	1673.3	1666.0	1654.1	1642.9	1635.6	1638.9	1641.6	1640.3	1638.3
5°	1648.2	1635.6	1616.5	1600.0	1588.1	1566.3	1557.0	1552.4	1548.4	1543.8	1539.2
7.5°	1600.6	1582.8	1555.7	1534.5	1513.4	1485.6	1471.7	1463.8	1455.2	1445.3	1436.1
10°	1549.1	1521.3	1492.2	1459.2	1432.8	1408.3	1386.5	1372.0	1358.7	1346.2	1336.9
12.5°	1494.9	1461.8	1424.2	1375.9	1346.2	1308.5	1309.8	1281.4	1259.0	1252.3	1241.1
15°	1436.7	1391.8	1346.2	1292.7	1269.5	1237.8	1218.0	1198.2	1180.3	1167.8	1164.4
17.5°	1373.3	1313.1	1268.9	1229.2	1191.5	1159.2	1142.0	1126.1	1110.9	1092.4	1091.8
20°	1298.6	1248.4	1198.8	1165.1	1126.1	1093.1	1070.6	1054.7	1042.2	1032.3	1023.7
22.5°	1227.9	1171.7	1127.4	1089.8	1051.4	1026.3	1009.8	994.6	984.7	973.5	965.5
25°	1151.2	1108.3	1058.7	1017.1	985.4	968.2	953.6	940.4	933.8	926.5	917.3
27.5°	1085.8	1038.2	989.3	956.9	927.9	912.7	901.4	891.5	885.6	880.9	875.0
30°	1015.8	967.5	931.2	899.4	876.3	861.1	854.5	849.2	841.9	839.3	836.7
32.5°	948.3	906.0	876.3	849.9	828.1	819.5	813.5	808.9	803.6	801.0	795.0
35°	885.6	849.2	818.8	803.6	785.8	777.2	772.6	765.9	760.7	758.0	757.4
37.5°	825.4	792.4	771.9	751.4	742.8	738.2	731.6	727.0	725.0	724.3	723.6
40°	767.3	741.5	723.6	707.8	704.5	696.6	691.3	687.3	687.3	688.0	687.3
42.5°	714.4	691.9	676.7	663.5	659.5	655.6	650.3	651.0	652.3	654.9	652.3
45°	660.9	644.3	633.1	626.5	619.2	614.6	613.9	615.9	616.6	617.2	619.2
47.5°	610.6	600.1	589.5	581.6	578.3	577.6	576.3	579.6	582.9	583.5	586.8
50°	567.0	554.5	545.9	541.2	538.6	537.3	538.6	542.6	545.2	548.5	550.5
52.5°	518.1	510.2	504.9	501.6	500.9	502.3	502.3	506.9	511.5	512.2	512.8
55°	473.8	467.2	465.9	460.0	462.6	461.9	465.2	467.9	471.9	475.8	476.5
57.5°	428.9	423.0	419.0	419.7	420.3	423.0	425.6	430.2	434.9	439.5	439.5
60°	384.0	381.3	379.3	379.3	380.7	384.6	387.9	392.6	395.2	397.8	399.8
62.5°	343.0	340.3	338.4	339.7	343.7	345.6	349.6	351.6	354.2	356.9	357.5
65°	299.4	298.1	300.0	301.4	302.0	305.3	309.9	311.9	314.6	315.9	320.5
67.5°	259.7	259.7	259.1	261.0	265.0	265.7	270.3	275.6	275.6	278.2	281.5
70°	219.4	220.7	222.1	223.4	226.7	228.0	231.3	233.3	235.9	237.9	239.9
72.5°	182.4	182.4	183.7	183.1	185.7	189.0	191.7	193.6	196.3	198.9	200.9
75°	146.1	146.1	147.4	148.0	151.3	154.6	154.0	155.3	157.9	160.6	161.9
77.5°	113.0	111.7	113.0	113.7	115.0	117.6	118.3	120.3	123.6	122.9	124.2
80°	81.3	79.3	81.3	81.9	81.9	85.3	85.3	86.6	88.6	86.6	88.6
82.5°	52.2	51.5	52.9	52.9	54.2	53.5	54.9	54.9	56.8	56.2	56.8
85°	29.1	28.4	29.1	28.4	29.1	29.7	29.7	29.1	29.1	30.4	28.4
87.5°	11.2	10.6	9.9	9.9	9.3	8.6	7.9	7.9	7.9	6.6	6.6
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: P242318

CATALOG NUMBER: S122DRP-S1005D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1719.6	1719.6	1719.6	1719.6
2.5°	1631.7	1630.4	1630.4	1624.4
5°	1529.9	1527.9	1524.6	1527.9
7.5°	1433.4	1424.8	1423.5	1416.9
10°	1325.7	1320.4	1319.8	1307.2
12.5°	1243.8	1229.2	1232.5	1226.6
15°	1146.6	1146.6	1144.0	1132.7
17.5°	1077.2	1076.6	1070.6	1074.6
20°	1016.4	1012.4	1004.5	1004.5
22.5°	958.9	959.6	951.0	954.3
25°	916.6	911.3	907.4	909.4
27.5°	873.0	871.0	870.4	864.4
30°	836.0	829.4	830.7	827.4
32.5°	793.7	792.4	790.4	787.8
35°	756.0	756.7	753.4	754.7
37.5°	722.3	725.0	723.0	723.0
40°	689.3	689.3	689.3	691.3
42.5°	657.6	656.2	654.9	654.3
45°	620.6	622.5	623.2	619.9
47.5°	588.2	588.8	588.2	592.1
50°	553.8	552.5	553.8	552.5
52.5°	517.5	518.1	516.8	516.8
55°	479.1	480.4	479.8	479.8
57.5°	440.1	440.8	442.1	438.8
60°	399.2	402.5	401.8	400.5
62.5°	361.5	362.2	362.2	362.2
65°	322.5	323.8	321.8	323.8
67.5°	280.2	280.9	282.2	282.9
70°	241.2	240.6	242.5	244.5
72.5°	200.2	202.2	200.9	202.2
75°	160.6	162.6	161.9	163.9
77.5°	122.9	123.6	123.6	124.2
80°	88.6	87.2	85.9	88.6
82.5°	54.9	56.2	54.9	54.2
85°	28.4	27.8	26.4	26.4
87.5°	6.6	5.9	5.9	5.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242318
 CATALOG NUMBER: S122DRP-S1005D940-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	20.42	21.93	20.78	22.25	22.56	23.67	25.19	24.04	25.50	25.82
	3H	21.83	23.19	22.20	23.51	23.88	24.68	26.04	25.06	26.37	26.73
	4H	22.33	23.61	22.73	23.95	24.33	25.00	26.28	25.40	26.63	27.00
	6H	22.68	23.86	23.10	24.23	24.62	25.20	26.37	25.61	26.74	27.13
	8H	22.79	23.92	23.22	24.31	24.71	25.24	26.36	25.67	26.75	27.15
	12H	22.87	23.94	23.30	24.32	24.75	25.26	26.33	25.69	26.71	27.14
4H	2H	21.28	22.55	21.68	22.90	23.28	23.88	25.16	24.28	25.51	25.89
	3H	22.83	23.89	23.24	24.29	24.69	25.22	26.28	25.63	26.68	27.08
	4H	23.42	24.38	23.86	24.79	25.23	25.73	26.68	26.16	27.10	27.54
	6H	23.87	24.70	24.33	25.14	25.60	26.06	26.89	26.52	27.34	27.80
	8H	24.01	24.79	24.47	25.23	25.70	26.14	26.91	26.60	27.36	27.83
	12H	24.11	24.81	24.60	25.28	25.75	26.18	26.87	26.66	27.35	27.82
8H	4H	23.86	24.63	24.32	25.08	25.54	25.86	26.63	26.32	27.08	27.54
	6H	24.39	25.03	24.89	25.52	26.00	26.30	26.94	26.79	27.43	27.90
	8H	24.58	25.16	25.10	25.67	26.15	26.43	27.00	26.94	27.51	28.00
	12H	24.74	25.25	25.25	25.74	26.31	26.52	27.03	27.03	27.52	28.08
12H	4H	23.91	24.61	24.40	25.08	25.56	25.85	26.54	26.33	27.02	27.49
	6H	24.47	25.04	24.98	25.55	26.04	26.30	26.87	26.81	27.38	27.87
	8H	24.71	25.22	25.22	25.71	26.27	26.47	26.98	26.98	27.47	28.04