

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: P242631

Luminaire Tested: S124DRP-S1020D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-S1020D927-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

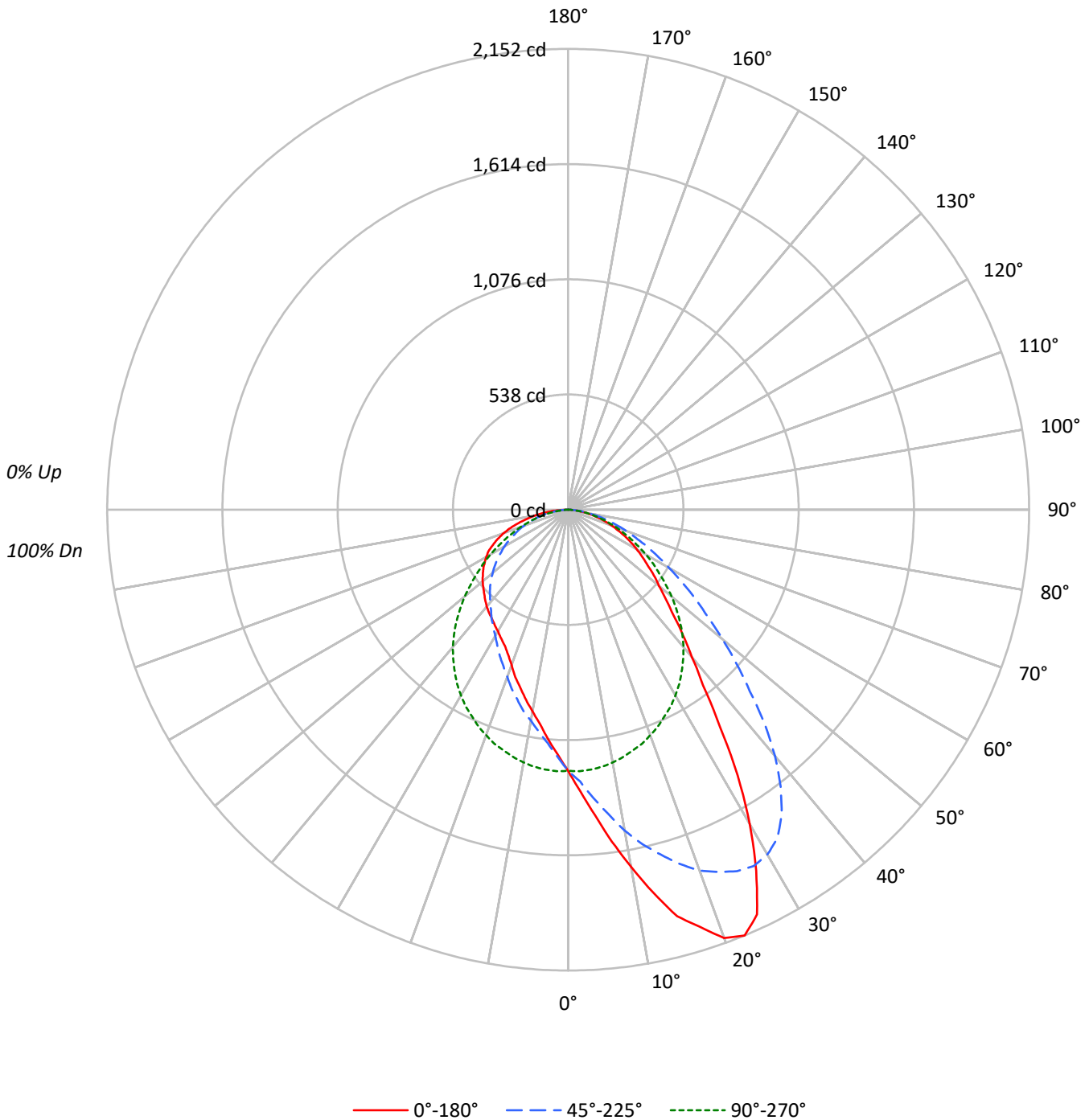
Lumens per Lamp: N/A
Luminaire Lumens: 3364.7 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10839	10839	10839	10839	10839
5°	12764	12057	10866	9767	9591
10°	15283	13737	10819	9036	8635
15°	18082	15344	10710	8441	7930
20°	20135	16963	10597	7855	7301
25°	20460	18266	10434	7396	6866
30°	17410	19089	10275	6984	6729
35°	13385	18850	10020	6758	6731
40°	10433	17419	9718	6570	6858
45°	8699	15074	9265	6489	6972
50°	7656	12999	8711	6371	7209
55°	7014	11186	8048	6255	7499
60°	6572	9680	7452	6098	7849
65°	6118	8457	6789	5896	8138
70°	5593	7469	6131	5736	8322
75°	4997	6436	5395	5361	8222
80°	4187	5221	4423	4889	7965
85°	3090	3967	3192	4539	7629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 16643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	3.5
10°-20°	366.3	10.9
20°-30°	581.9	17.3
30°-40°	646.6	19.2
40°-50°	588.0	17.5
50°-60°	480.5	14.3
60°-70°	343.0	10.2
70°-80°	188.7	5.6
80°-90°	51.0	1.5
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°	1066.9	31.7
0°-40°	1713.4	50.9
0°-60°	2782.0	82.7
0°-90°	3364.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1430	1351	1218	1095	1075	145
15°	1965	1667	1164	917	862	555
25°	2086	1862	1064	754	700	925
35°	1234	1737	923	623	620	781
45°	692	1199	737	516	555	544
55°	453	722	519	404	484	409
65°	291	402	323	280	387	288
75°	146	187	157	156	239	154
85°	30	39	31	44	75	37
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°	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1317.3	1316.8	1311.8	1310.8	1307.2	1302.7	1301.7	1293.6	1277.4	1269.9	1267.8
5°	1430.5	1440.6	1427.5	1424.9	1423.4	1406.8	1398.2	1388.1	1364.8	1351.2	1340.6
7.5°	1562.8	1563.3	1557.8	1552.2	1542.6	1528.5	1509.3	1487.1	1460.3	1433.0	1413.8
10°	1693.2	1697.2	1690.6	1689.6	1663.9	1647.7	1615.4	1588.1	1556.8	1521.9	1490.1
12.5°	1830.5	1822.5	1819.9	1793.2	1793.7	1760.8	1721.9	1693.7	1641.1	1599.7	1554.7
15°	1964.9	1953.8	1946.7	1916.9	1902.3	1861.4	1821.5	1790.6	1727.5	1667.4	1621.9
17.5°	2042.7	2056.3	2038.1	2026.0	1986.1	1959.3	1919.4	1856.3	1809.3	1734.6	1682.5
20°	2128.6	2129.6	2120.5	2107.9	2078.1	2041.7	1997.2	1926.5	1867.4	1793.2	1714.4
22.5°	2151.8	2151.8	2149.3	2137.7	2116.9	2089.2	2044.2	1988.1	1913.4	1831.0	1752.3
25°	2086.1	2084.1	2088.7	2101.8	2093.2	2084.1	2058.4	2014.4	1947.7	1862.4	1777.5
27.5°	1900.2	1913.4	1940.7	1973.0	1996.2	2016.9	2015.4	1996.7	1949.2	1875.5	1785.1
30°	1696.2	1713.4	1732.6	1764.9	1827.5	1863.4	1902.8	1932.6	1915.9	1859.8	1777.0
32.5°	1471.9	1472.9	1503.7	1541.6	1597.7	1675.0	1743.2	1811.3	1840.6	1817.9	1752.3
35°	1233.5	1240.6	1271.4	1307.7	1378.0	1462.3	1556.3	1640.1	1709.3	1737.1	1701.7
37.5°	1033.5	1055.7	1078.9	1120.3	1184.5	1260.8	1361.8	1466.4	1567.9	1629.5	1636.1
40°	899.1	911.7	927.4	957.2	1009.7	1084.5	1168.3	1292.6	1402.2	1501.2	1533.5
42.5°	793.0	799.1	807.2	833.4	870.3	944.6	1019.3	1124.9	1235.0	1358.3	1417.9
45°	692.0	699.6	715.8	731.4	761.7	813.2	884.5	974.4	1085.0	1199.1	1299.2
47.5°	616.2	621.3	631.4	648.6	675.8	710.7	771.3	847.6	955.7	1066.3	1173.4
50°	553.6	557.6	565.2	580.4	600.1	630.4	677.9	748.1	828.4	940.0	1044.6
52.5°	504.1	505.1	510.2	519.3	533.9	558.2	595.0	650.1	723.3	819.8	923.9
55°	452.6	454.6	459.7	467.2	480.9	497.0	526.8	570.3	635.4	721.8	812.2
57.5°	410.2	412.2	416.2	419.2	431.4	445.0	469.3	500.6	551.6	628.4	710.7
60°	369.7	368.7	373.8	376.3	383.9	395.0	412.7	442.5	485.4	544.5	618.8
62.5°	330.3	328.8	332.9	336.4	339.9	349.0	362.7	384.4	417.2	469.3	530.9
65°	290.9	288.9	291.5	295.5	299.5	304.6	315.2	335.9	363.7	402.1	451.1
67.5°	250.5	253.1	253.1	255.6	258.1	265.2	272.8	288.9	308.6	339.9	383.4
70°	215.2	215.7	217.7	217.7	219.2	225.3	231.3	239.9	259.1	287.4	321.3
72.5°	179.8	182.3	180.8	182.9	183.9	187.4	191.4	199.5	215.2	234.4	261.7
75°	145.5	147.0	147.0	147.5	149.0	150.5	154.1	160.1	171.7	187.4	207.1
77.5°	112.1	112.1	113.1	115.2	115.2	117.7	120.7	125.3	131.8	143.5	156.1
80°	81.8	82.8	82.3	83.3	83.3	85.4	86.4	92.4	95.0	102.0	111.6
82.5°	54.6	55.6	55.6	57.1	58.1	58.1	59.6	61.1	63.6	69.7	72.2
85°	30.3	31.3	30.3	31.3	32.8	33.3	34.9	35.4	37.4	38.9	42.4
87.5°	11.1	12.6	12.6	13.1	14.1	14.6	15.2	14.6	16.7	17.2	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°	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1268.3	1261.3	1256.2	1252.2	1241.1	1234.5	1229.5	1222.4	1214.3	1205.7	1195.1
5°	1330.0	1312.8	1300.2	1281.0	1262.8	1247.6	1232.0	1217.8	1200.7	1182.0	1168.3
7.5°	1393.1	1369.4	1337.5	1312.8	1283.0	1257.2	1234.5	1210.8	1185.5	1161.3	1138.5
10°	1452.7	1419.9	1383.5	1340.6	1300.2	1264.3	1231.0	1198.6	1167.3	1136.0	1109.2
12.5°	1516.9	1473.9	1415.8	1363.8	1317.3	1266.3	1224.4	1183.0	1143.6	1110.2	1077.9
15°	1572.9	1513.8	1451.7	1384.5	1324.9	1268.9	1213.8	1163.8	1121.4	1077.9	1047.6
17.5°	1608.3	1535.1	1468.4	1398.2	1329.5	1259.3	1202.2	1146.1	1093.6	1051.1	1013.3
20°	1643.1	1570.4	1482.0	1411.8	1325.9	1253.2	1184.5	1120.3	1064.8	1018.8	979.4
22.5°	1673.5	1586.6	1498.2	1400.2	1314.8	1236.5	1159.7	1095.1	1038.0	989.0	951.6
25°	1680.5	1584.0	1488.1	1396.1	1299.2	1207.7	1139.5	1063.8	1003.2	952.1	911.7
27.5°	1683.0	1581.0	1474.4	1374.4	1274.4	1191.1	1102.2	1036.0	973.4	919.3	880.9
30°	1677.5	1569.9	1453.2	1342.6	1242.1	1149.6	1074.9	1001.1	937.0	883.4	843.0
32.5°	1659.8	1546.7	1425.9	1307.2	1202.2	1112.3	1034.5	965.3	903.1	850.6	807.7
35°	1622.4	1511.8	1384.0	1262.3	1155.7	1064.3	994.6	923.4	860.7	810.7	769.8
37.5°	1572.4	1469.4	1339.6	1212.8	1110.2	1017.3	947.1	881.4	824.9	773.3	730.9
40°	1502.7	1414.8	1284.5	1161.8	1048.6	961.2	896.6	837.5	781.4	733.4	693.5
42.5°	1422.4	1348.7	1231.0	1099.1	991.0	903.1	840.5	789.0	737.0	693.5	653.6
45°	1323.9	1273.4	1160.3	1040.0	926.4	843.5	783.4	737.0	692.5	649.1	615.7
47.5°	1214.3	1186.0	1087.5	972.3	863.2	780.4	728.4	683.9	643.5	605.6	575.8
50°	1103.7	1091.6	1009.2	899.1	796.1	719.3	666.8	629.9	596.5	564.2	536.4
52.5°	994.6	997.1	924.9	826.4	732.9	659.7	607.7	573.8	546.0	521.3	497.0
55°	882.9	897.1	839.0	749.1	663.7	597.0	550.1	519.3	499.1	477.3	458.6
57.5°	780.4	804.1	753.6	671.3	599.1	535.4	494.0	470.3	448.0	433.9	419.2
60°	680.4	702.6	665.2	598.6	531.4	478.9	440.0	419.2	400.6	391.5	381.9
62.5°	591.5	610.7	585.4	524.8	468.7	418.7	387.4	367.7	356.6	346.5	341.0
65°	507.6	524.3	500.6	455.6	405.6	365.2	338.4	322.8	310.6	306.6	299.5
67.5°	424.8	440.0	427.3	387.9	345.5	313.7	292.5	275.8	268.7	264.7	260.1
70°	352.6	367.7	354.1	320.7	289.9	264.2	244.5	235.9	228.3	226.8	219.7
72.5°	291.5	300.5	286.9	262.7	237.4	216.7	202.6	193.5	190.4	187.4	184.4
75°	227.8	236.9	227.8	207.6	188.9	173.8	160.6	157.1	152.5	151.0	148.5
77.5°	170.7	179.3	172.2	158.6	144.0	131.3	123.8	118.7	118.2	115.2	116.2
80°	123.2	128.3	121.7	113.1	102.0	94.0	88.9	86.4	83.3	82.3	84.4
82.5°	79.8	81.3	78.8	73.7	66.2	61.6	58.6	55.6	55.6	56.1	55.6
85°	46.0	45.5	45.0	39.9	37.4	33.8	31.8	31.3	30.8	31.8	32.8
87.5°	19.2	19.7	19.2	17.2	15.7	14.1	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1190.1	1185.5	1178.9	1169.9	1162.3	1154.2	1152.2	1149.1	1155.2	1150.2	1148.6
5°	1156.7	1146.1	1132.5	1116.8	1107.7	1094.6	1092.1	1087.0	1082.0	1081.5	1076.4
7.5°	1121.9	1107.2	1090.0	1073.9	1059.7	1045.6	1036.5	1035.5	1027.4	1023.4	1018.3
10°	1088.5	1069.3	1048.6	1033.5	1016.3	1001.1	990.5	984.5	979.4	973.9	968.8
12.5°	1049.1	1028.4	1012.3	995.6	974.4	963.8	944.6	933.0	933.0	934.5	919.3
15°	1020.3	1000.1	973.9	950.6	939.5	917.3	907.7	895.6	888.0	880.4	874.4
17.5°	985.0	960.2	940.0	913.8	893.0	876.4	863.2	856.7	844.6	833.4	825.9
20°	952.1	925.4	903.7	875.4	852.1	830.4	819.8	809.7	801.1	792.0	783.4
22.5°	918.8	890.5	862.7	835.5	814.2	791.0	780.9	766.3	758.2	754.1	745.6
25°	883.4	853.1	822.8	796.6	774.3	754.1	740.5	729.9	720.8	716.8	711.2
27.5°	845.1	815.3	786.5	756.2	730.4	715.8	704.6	696.1	690.5	684.4	681.9
30°	808.7	777.4	746.1	718.3	695.0	680.4	670.3	664.7	660.7	658.2	655.6
32.5°	771.8	741.0	707.7	682.9	662.7	650.1	643.0	637.5	635.9	635.4	634.9
35°	731.9	700.6	670.3	647.6	627.9	622.8	616.2	613.2	612.2	615.7	617.3
37.5°	693.5	664.2	635.9	613.2	600.1	592.0	589.5	589.0	592.5	595.5	599.1
40°	656.7	628.4	602.1	582.9	570.8	566.2	565.2	567.8	571.8	575.3	579.4
42.5°	620.8	593.0	569.8	552.1	544.5	540.5	541.5	544.0	550.1	554.6	561.2
45°	583.4	560.2	536.9	522.3	515.2	516.2	516.2	520.8	526.3	532.9	539.5
47.5°	548.6	524.8	505.1	492.5	489.0	487.4	490.0	496.0	503.6	511.2	520.3
50°	513.2	491.0	474.3	463.2	459.2	460.7	464.7	470.3	479.9	490.0	499.6
52.5°	477.3	457.6	442.5	432.4	429.9	432.9	436.9	446.5	454.6	465.7	477.8
55°	440.0	422.8	410.7	403.1	402.1	403.6	408.1	417.7	429.9	443.5	454.6
57.5°	403.1	388.4	376.8	371.3	371.8	372.8	379.8	391.5	403.6	418.2	432.4
60°	365.7	352.6	343.5	339.4	339.9	343.0	352.1	362.7	378.8	393.0	408.1
62.5°	330.3	319.2	310.6	307.1	306.1	313.7	322.3	333.4	349.5	365.7	382.4
65°	292.0	282.9	275.8	273.8	275.3	280.3	291.5	306.1	319.7	336.4	353.6
67.5°	254.6	247.0	242.0	243.0	244.5	251.5	261.1	273.8	288.9	306.1	323.8
70°	219.2	212.1	208.1	208.6	211.6	220.7	228.8	241.4	258.1	275.8	289.9
72.5°	182.9	178.8	175.3	177.8	180.8	186.4	197.0	209.6	223.8	239.9	255.1
75°	146.0	146.0	144.0	145.5	150.0	156.1	163.7	176.8	191.4	204.6	216.7
77.5°	114.7	113.1	114.2	115.7	118.7	126.3	134.9	144.5	156.1	169.7	179.8
80°	82.8	83.3	85.9	88.9	89.9	95.5	104.6	113.1	121.7	132.8	142.4
82.5°	57.1	57.6	58.6	62.6	63.6	69.7	74.8	83.3	90.9	97.5	105.1
85°	33.8	33.8	36.4	37.9	40.4	44.5	48.0	53.0	60.1	65.2	72.7
87.5°	16.2	16.2	18.2	19.2	20.7	23.2	24.2	29.8	31.8	34.3	38.9
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: P242631

CATALOG NUMBER: S124DRP-S1020D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1219.4	1219.4	1219.4	1219.4
2.5°	1147.6	1146.6	1143.1	1142.6
5°	1073.4	1070.8	1069.3	1074.9
7.5°	1017.3	1015.3	1010.7	1009.2
10°	963.8	961.7	957.7	956.7
12.5°	912.2	907.7	907.7	909.2
15°	867.8	865.8	860.2	861.7
17.5°	822.3	820.3	812.7	820.3
20°	779.9	775.9	772.3	771.8
22.5°	739.5	736.0	736.5	732.4
25°	707.2	703.6	702.6	700.1
27.5°	680.9	678.9	676.9	677.9
30°	657.2	656.7	655.6	655.6
32.5°	637.5	637.5	638.5	638.5
35°	619.3	620.8	621.8	620.3
37.5°	603.1	604.1	605.6	607.2
40°	583.9	587.5	588.5	591.0
42.5°	565.7	569.8	572.8	572.8
45°	547.0	551.1	554.6	554.6
47.5°	527.8	533.4	536.9	537.4
50°	508.1	515.2	518.8	521.3
52.5°	489.0	496.0	501.1	502.1
55°	466.2	476.3	481.9	483.9
57.5°	446.0	455.1	461.2	462.7
60°	421.8	431.9	440.0	441.5
62.5°	397.0	407.6	414.7	419.2
65°	367.7	378.3	385.4	386.9
67.5°	336.9	348.0	352.6	355.6
70°	304.1	312.7	317.7	320.2
72.5°	266.7	275.8	281.9	281.9
75°	228.3	236.4	239.4	239.4
77.5°	188.4	193.0	197.0	198.0
80°	150.0	152.5	155.6	155.6
82.5°	110.6	112.6	115.7	115.2
85°	71.7	76.3	75.8	74.8
87.5°	40.4	40.9	42.4	43.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242631
 CATALOG NUMBER: S124DRP-S1020D927-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	18.25	19.81	18.61	20.12	20.44	19.16	20.72	19.52	21.03	21.35
	3H	19.73	21.14	20.11	21.46	21.82	20.52	21.93	20.90	22.26	22.62
	4H	20.27	21.59	20.67	21.94	22.32	21.00	22.32	21.40	22.67	23.04
	6H	20.63	21.85	21.04	22.22	22.61	21.30	22.53	21.72	22.89	23.28
	8H	20.73	21.90	21.16	22.29	22.69	21.38	22.55	21.81	22.94	23.34
	12H	20.78	21.90	21.21	22.28	22.71	21.43	22.54	21.86	22.92	23.35
4H	2H	19.41	20.73	19.81	21.08	21.46	19.84	21.17	20.24	21.51	21.89
	3H	20.94	22.04	21.35	22.44	22.84	21.55	22.65	21.96	23.05	23.45
	4H	21.52	22.52	21.96	22.93	23.37	22.14	23.14	22.57	23.55	23.99
	6H	21.95	22.82	22.41	23.26	23.72	22.54	23.41	22.99	23.85	24.31
	8H	22.08	22.89	22.54	23.33	23.80	22.64	23.45	23.10	23.90	24.36
	12H	22.15	22.88	22.63	23.36	23.83	22.71	23.43	23.19	23.91	24.38
8H	4H	21.98	22.79	22.44	23.23	23.70	22.46	23.27	22.92	23.71	24.18
	6H	22.49	23.16	22.98	23.65	24.12	22.98	23.66	23.48	24.14	24.62
	8H	22.66	23.26	23.17	23.77	24.26	23.15	23.75	23.66	24.26	24.74
	12H	22.78	23.31	23.29	23.80	24.37	23.26	23.79	23.77	24.28	24.85
12H	4H	22.03	22.76	22.51	23.23	23.70	22.49	23.21	22.97	23.69	24.16
	6H	22.56	23.16	23.07	23.67	24.16	23.04	23.64	23.55	24.15	24.64
	8H	22.78	23.31	23.29	23.81	24.37	23.26	23.79	23.77	24.29	24.85