

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: P243512

Luminaire Tested: S124DRP-H1195D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-H1195D930-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

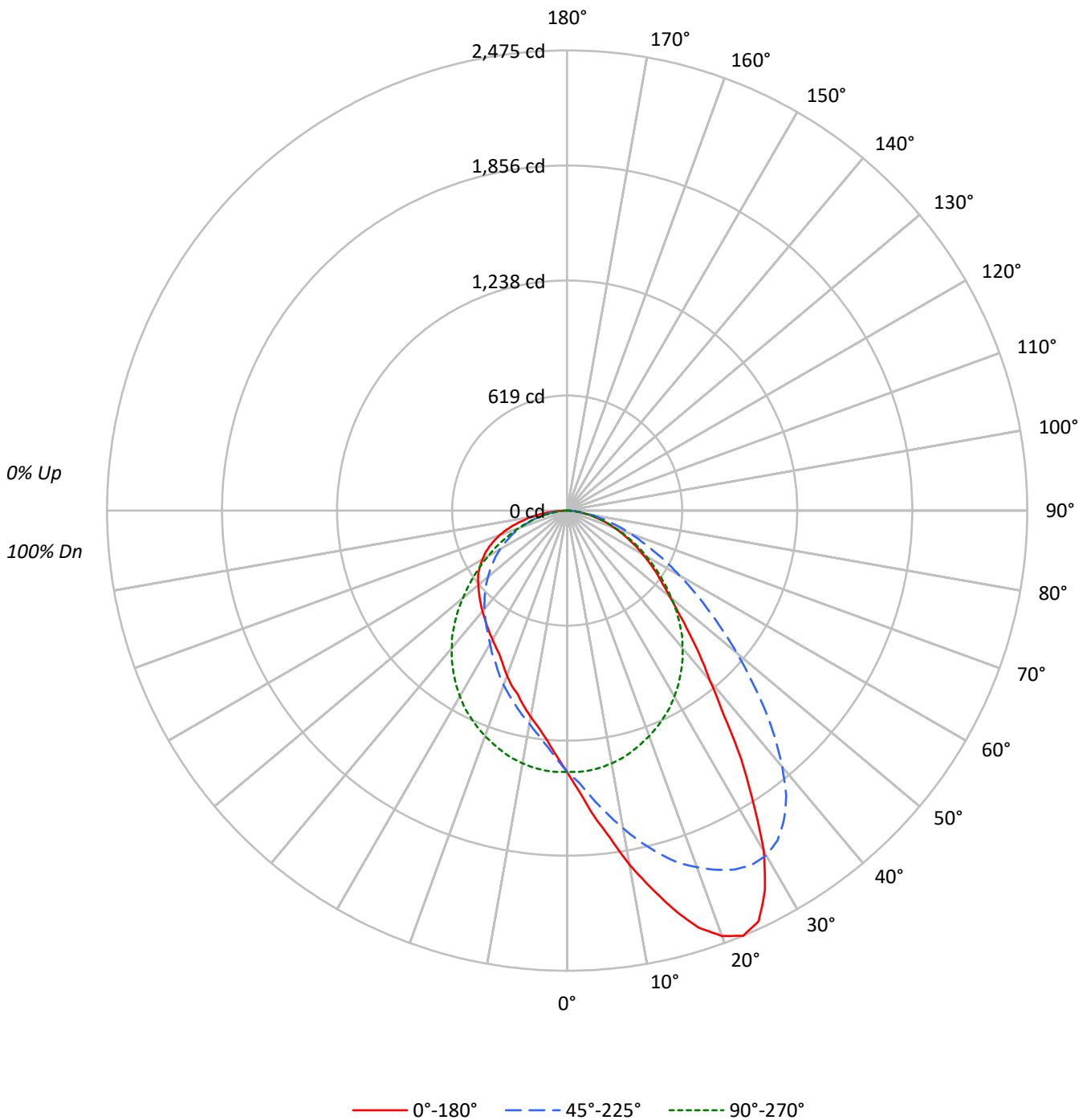
Lumens per Lamp: N/A
Luminaire Lumens: 4028.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32				32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29				29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12487	12487	12487	12487	12487
5°	14694	13855	12520	11318	11052
10°	17463	15666	12463	10517	10175
15°	20453	17571	12352	9941	9424
20°	23031	19309	12209	9443	8939
25°	23902	20893	12046	8908	8413
30°	21705	21976	11842	8510	8228
35°	17708	22064	11561	8225	8176
40°	13866	20885	11198	8031	8211
45°	11605	18835	10748	7849	8362
50°	9959	16470	10118	7676	8611
55°	9100	14272	9438	7544	9029
60°	8338	12386	8736	7420	9358
65°	7645	10733	7997	7176	9721
70°	7033	9403	7212	6944	10014
75°	6261	8095	6340	6481	10004
80°	5226	6573	5196	5989	9982
85°	3978	4916	3916	5385	9352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 19686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.4
10°-20°	423.5	10.5
20°-30°	680.4	16.9
30°-40°	777.8	19.3
40°-50°	715.9	17.8
50°-60°	585.6	14.5
60°-70°	417.4	10.4
70°-80°	229.3	5.7
80°-90°	61.6	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°	1240.6	30.8
0°-40°	2018.4	50.1
0°-60°	3319.9	82.4
0°-90°	4028.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1405	1405	1405	1405	1405	
5°	1647	1553	1403	1268	1239	165
15°	2222	1909	1342	1080	1024	633
25°	2437	2130	1228	908	858	1094
35°	1632	2033	1065	758	754	1014
45°	923	1498	855	624	665	721
55°	587	921	609	487	583	527
65°	364	510	380	341	462	363
75°	182	236	185	189	291	195
85°	39	48	38	53	92	47
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°	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8
2.5°	1512.6	1508.1	1505.8	1502.9	1502.3	1499.5	1493.7	1485.7	1475.4	1464.5	1464.5
5°	1646.8	1645.7	1637.1	1637.7	1626.8	1614.7	1605.5	1594.1	1571.7	1552.8	1539.6
7.5°	1775.3	1787.3	1784.4	1775.3	1759.2	1742.0	1723.7	1707.6	1666.3	1643.4	1624.5
10°	1934.7	1939.3	1931.2	1918.0	1903.7	1870.5	1846.4	1819.4	1774.7	1735.7	1701.3
12.5°	2074.6	2085.5	2071.1	2058.5	2024.7	2000.0	1976.0	1922.1	1875.0	1825.7	1775.8
15°	2222.5	2211.1	2218.5	2187.5	2163.5	2140.0	2078.6	2023.6	1970.2	1909.4	1857.3
17.5°	2351.0	2351.0	2337.2	2317.1	2291.9	2247.8	2186.4	2125.6	2066.6	1986.9	1912.9
20°	2434.7	2441.0	2424.9	2403.7	2373.3	2327.5	2278.7	2212.8	2134.2	2041.3	1957.6
22.5°	2474.8	2476.0	2470.2	2452.5	2427.8	2388.8	2338.9	2274.7	2191.6	2091.8	2004.1
25°	2437.0	2443.3	2441.6	2440.4	2427.8	2405.4	2365.3	2305.7	2230.0	2130.2	2035.6
27.5°	2304.0	2319.4	2332.6	2338.4	2352.1	2353.3	2341.2	2305.1	2243.2	2149.1	2043.6
30°	2114.7	2106.7	2142.3	2160.0	2207.0	2235.1	2255.2	2252.9	2217.4	2141.1	2040.8
32.5°	1862.4	1884.2	1909.4	1951.3	2006.9	2072.3	2121.6	2158.3	2154.9	2105.0	2021.3
35°	1631.9	1631.9	1664.0	1715.6	1774.7	1853.3	1935.8	2004.1	2045.9	2033.3	1974.2
37.5°	1381.9	1397.4	1434.1	1474.2	1546.5	1622.2	1731.1	1821.7	1909.4	1935.8	1905.4
40°	1195.0	1201.9	1240.9	1274.7	1348.7	1427.2	1518.4	1634.2	1735.1	1799.9	1803.9
42.5°	1056.2	1055.6	1071.7	1102.1	1161.7	1231.7	1330.3	1443.8	1562.0	1653.7	1696.7
45°	923.2	922.0	938.7	969.6	1012.1	1074.0	1159.4	1273.0	1394.0	1498.3	1566.0
47.5°	810.8	821.1	828.6	852.7	887.6	940.4	1013.8	1104.4	1220.8	1337.8	1428.9
50°	720.2	724.8	740.8	752.3	791.3	828.0	887.1	968.5	1068.3	1191.0	1289.6
52.5°	648.0	650.8	660.6	675.5	697.8	729.9	777.0	852.1	942.1	1048.8	1150.8
55°	587.2	585.4	591.8	601.5	621.0	648.0	682.4	739.7	818.3	920.9	1014.9
57.5°	527.5	527.5	533.3	540.1	551.0	573.4	607.2	652.5	715.6	806.8	889.9
60°	469.0	473.1	475.4	482.2	491.4	508.0	533.3	568.8	622.1	696.7	779.3
62.5°	417.4	417.4	421.5	423.7	435.8	447.8	466.2	496.6	538.4	604.9	669.2
65°	363.5	367.0	367.0	371.6	381.9	391.1	405.4	428.3	462.7	510.3	570.5
67.5°	317.7	317.7	320.5	322.8	328.6	334.9	347.5	365.3	394.5	432.3	486.8
70°	270.6	272.4	271.2	274.1	277.5	283.8	293.0	307.9	329.1	361.8	402.0
72.5°	228.2	225.9	227.1	229.9	231.7	235.7	241.4	252.9	270.1	296.5	325.7
75°	182.3	181.2	185.2	184.1	186.9	190.4	195.5	204.1	217.3	235.7	258.0
77.5°	142.2	140.5	142.2	143.4	144.5	147.4	151.4	156.5	165.7	177.8	197.8
80°	102.1	101.5	102.6	103.8	104.4	108.9	110.1	115.3	119.3	128.4	138.2
82.5°	67.7	68.8	69.4	70.5	70.0	72.2	73.4	76.8	80.3	84.9	92.3
85°	39.0	37.3	39.0	39.0	39.0	41.9	41.3	43.6	45.9	48.2	53.3
87.5°	13.8	13.8	14.3	14.9	14.9	16.6	16.1	17.2	19.5	19.5	21.2
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°	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8
2.5°	1461.0	1454.7	1450.1	1437.0	1428.9	1421.5	1414.6	1407.1	1399.1	1388.8	1382.5
5°	1525.8	1512.1	1492.0	1473.7	1453.0	1434.7	1419.8	1403.1	1384.8	1365.9	1349.2
7.5°	1597.5	1571.7	1540.7	1506.9	1474.8	1447.9	1419.8	1393.4	1367.6	1342.3	1318.8
10°	1669.2	1624.5	1583.8	1537.3	1494.9	1454.2	1417.5	1380.8	1348.7	1315.4	1285.6
12.5°	1735.7	1681.8	1622.2	1564.3	1507.5	1454.7	1409.4	1364.7	1323.4	1283.9	1248.9
15°	1786.7	1719.1	1648.5	1579.7	1514.4	1459.3	1400.3	1342.3	1299.3	1251.2	1212.8
17.5°	1845.2	1764.9	1695.0	1612.4	1531.0	1442.1	1379.6	1316.5	1264.9	1218.5	1180.1
20°	1884.2	1795.9	1695.0	1601.5	1517.8	1438.1	1363.0	1290.7	1236.3	1182.4	1135.9
22.5°	1915.2	1824.0	1712.8	1615.3	1510.4	1414.0	1332.6	1261.5	1197.3	1146.2	1102.1
25°	1931.2	1820.0	1713.9	1595.8	1490.9	1398.5	1306.8	1228.2	1163.4	1106.7	1068.8
27.5°	1931.8	1817.7	1692.1	1575.2	1462.8	1363.0	1272.4	1195.0	1122.2	1067.7	1022.4
30°	1928.9	1802.8	1670.3	1542.5	1430.7	1328.6	1234.0	1153.7	1087.2	1029.3	986.3
32.5°	1910.6	1782.2	1637.7	1503.5	1381.9	1279.3	1192.1	1112.4	1041.3	988.6	943.3
35°	1869.3	1736.9	1591.8	1453.6	1338.3	1231.7	1145.7	1065.4	1001.7	944.4	898.0
37.5°	1816.6	1692.7	1545.3	1400.8	1276.4	1175.5	1094.6	1018.9	952.4	899.7	853.2
40°	1750.0	1633.6	1488.6	1338.3	1213.9	1111.8	1035.6	965.0	908.3	854.4	809.1
42.5°	1658.9	1569.4	1420.3	1274.1	1143.9	1047.6	973.6	915.2	856.7	807.9	762.6
45°	1561.4	1480.0	1347.5	1202.4	1077.4	978.2	908.9	855.0	805.1	755.8	719.1
47.5°	1453.6	1387.1	1264.4	1122.7	999.4	911.7	843.5	795.3	749.4	711.6	674.9
50°	1325.1	1290.2	1175.5	1047.0	927.2	837.2	781.0	731.7	697.8	661.1	626.7
52.5°	1205.9	1177.8	1084.3	958.2	849.2	770.1	709.9	670.9	637.6	610.7	583.2
55°	1076.3	1062.0	982.8	873.9	775.2	696.1	644.5	609.0	582.6	557.4	537.3
57.5°	957.0	955.9	885.9	792.4	696.1	629.0	579.7	550.5	527.5	509.8	492.6
60°	834.9	844.6	787.3	701.9	625.6	562.5	517.8	491.4	475.9	459.3	445.0
62.5°	724.2	739.1	686.9	619.9	544.7	493.1	458.7	438.7	421.5	409.4	398.5
65°	618.1	637.1	594.6	534.4	477.1	428.3	399.1	380.2	367.0	360.1	352.6
67.5°	524.7	535.0	506.3	459.3	411.7	369.3	345.2	328.6	317.1	314.2	305.6
70°	431.2	443.2	423.2	380.2	343.5	312.5	290.7	277.5	270.6	266.6	260.9
72.5°	356.1	361.2	341.2	311.4	282.1	256.3	240.3	230.5	222.5	220.8	217.9
75°	278.7	286.1	270.1	247.1	223.1	204.7	192.7	184.6	180.6	177.8	177.8
77.5°	210.4	216.7	207.6	187.5	173.2	157.1	149.1	141.6	139.9	137.0	138.2
80°	149.7	152.5	147.4	133.6	121.0	112.4	105.5	101.5	100.9	98.6	100.9
82.5°	99.2	99.8	94.0	87.7	78.0	73.4	68.8	67.1	66.5	66.5	65.4
85°	55.0	56.2	52.2	48.2	44.7	40.7	39.6	38.4	37.3	39.0	40.1
87.5°	21.2	21.8	21.2	19.5	18.3	17.2	16.6	17.8	16.1	17.2	17.8
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°	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8	1404.8
2.5°	1372.7	1368.2	1361.3	1349.8	1341.8	1333.2	1329.7	1330.9	1327.4	1322.9	1324.0
5°	1336.6	1323.4	1312.0	1295.9	1281.0	1268.4	1264.4	1259.2	1254.6	1251.7	1248.9
7.5°	1298.2	1279.8	1262.6	1246.6	1229.4	1213.3	1207.0	1202.4	1200.1	1192.1	1188.7
10°	1261.5	1240.3	1219.6	1200.7	1182.9	1165.2	1158.9	1153.1	1145.1	1141.7	1137.6
12.5°	1222.5	1201.3	1178.9	1156.0	1138.2	1123.9	1113.0	1109.0	1100.9	1097.5	1095.2
15°	1184.7	1158.9	1141.1	1123.3	1096.4	1080.3	1075.7	1061.4	1056.8	1049.9	1045.3
17.5°	1146.8	1122.7	1096.4	1075.7	1059.1	1039.0	1028.1	1021.8	1013.2	1006.9	998.3
20°	1109.5	1081.4	1060.8	1035.0	1016.7	998.3	984.5	978.8	971.4	962.8	950.7
22.5°	1073.4	1042.5	1022.4	998.3	975.4	954.2	942.7	934.7	919.7	918.0	907.1
25°	1031.0	1003.5	977.1	951.9	929.5	908.3	900.8	888.2	883.0	872.7	871.0
27.5°	990.8	961.6	932.9	905.4	885.9	871.0	857.8	849.8	844.6	836.6	837.2
30°	949.0	916.9	889.9	864.7	843.5	829.1	820.5	816.5	809.1	807.9	803.9
32.5°	904.3	875.0	846.9	824.6	802.8	790.2	786.1	782.1	777.5	778.1	777.0
35°	859.5	833.7	803.9	783.3	765.5	758.0	751.7	750.6	748.9	750.0	750.0
37.5°	816.0	787.9	763.2	744.3	734.0	723.6	720.8	720.2	720.8	721.9	724.8
40°	773.5	747.7	723.6	708.2	696.7	692.1	688.1	689.8	692.1	696.1	699.6
42.5°	731.1	706.4	686.4	670.9	660.0	657.7	658.3	661.7	662.3	668.0	674.3
45°	686.4	665.2	646.2	634.2	627.3	624.4	625.6	629.0	633.0	641.1	649.1
47.5°	645.1	626.2	609.5	597.5	592.3	591.2	593.5	598.1	607.2	615.3	624.4
50°	603.2	586.0	570.5	559.6	559.1	555.1	560.2	566.0	576.8	587.7	601.5
52.5°	561.9	545.3	532.1	523.5	521.2	521.2	527.5	537.9	547.6	561.9	574.6
55°	518.9	504.0	491.4	488.5	485.1	486.8	493.7	504.0	517.8	533.8	547.6
57.5°	474.8	462.2	453.0	449.0	447.3	453.0	461.0	471.9	489.7	505.7	520.7
60°	432.9	422.0	412.3	411.1	410.0	417.4	427.2	438.7	456.4	472.5	490.8
62.5°	388.2	379.6	373.3	371.6	371.6	379.0	389.9	404.8	421.5	438.7	458.2
65°	342.9	335.4	333.7	331.4	336.6	341.2	352.1	366.4	384.2	403.1	423.7
67.5°	301.0	296.5	293.0	293.0	297.0	305.6	315.4	329.7	348.1	368.1	386.5
70°	259.2	254.6	251.7	254.6	256.9	267.2	277.5	291.3	308.5	328.0	347.5
72.5°	215.6	216.2	216.7	216.2	218.5	228.2	238.5	251.7	268.4	287.3	305.1
75°	177.2	174.3	174.9	176.0	183.5	188.7	199.0	211.6	229.4	246.6	261.5
77.5°	137.6	136.5	139.3	139.3	146.2	152.5	161.1	173.7	189.2	204.7	216.7
80°	100.9	101.5	103.8	104.4	110.1	117.0	126.1	134.8	148.5	159.4	170.9
82.5°	68.2	69.4	72.2	76.3	78.6	82.6	90.6	99.8	109.5	121.0	127.9
85°	39.6	41.3	43.6	46.4	48.7	52.8	58.5	65.9	72.8	79.1	84.9
87.5°	19.5	19.5	21.2	22.4	24.1	26.4	30.4	33.3	37.8	42.4	44.7
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: P243512

CATALOG NUMBER: S124DRP-H1195D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1404.8	1404.8	1404.8	1404.8
2.5°	1321.7	1321.1	1318.8	1320.0
5°	1247.2	1241.4	1240.9	1238.6
7.5°	1182.9	1181.2	1181.2	1176.6
10°	1133.6	1128.5	1129.6	1127.3
12.5°	1086.6	1083.7	1080.3	1076.9
15°	1033.9	1033.9	1033.9	1024.1
17.5°	992.6	992.0	989.1	988.6
20°	949.6	947.3	939.8	945.0
22.5°	906.0	904.3	898.0	899.1
25°	865.3	863.6	862.4	857.8
27.5°	830.3	830.9	832.0	829.1
30°	803.9	802.2	804.5	801.6
32.5°	779.3	779.3	777.0	777.5
35°	751.2	753.5	754.0	753.5
37.5°	726.5	729.4	731.7	729.4
40°	703.6	705.9	708.2	707.6
42.5°	679.5	683.5	685.2	686.9
45°	656.6	661.7	664.6	665.2
47.5°	633.0	639.3	645.1	644.5
50°	610.1	618.1	623.3	622.7
52.5°	587.2	595.2	601.5	604.4
55°	561.4	571.7	577.4	582.6
57.5°	535.6	547.0	552.8	555.1
60°	506.9	517.2	524.7	526.4
62.5°	474.8	485.7	495.4	497.7
65°	441.5	453.6	461.0	462.2
67.5°	403.1	414.6	422.0	425.5
70°	363.5	372.1	380.2	385.3
72.5°	319.4	329.7	337.2	340.6
75°	273.5	285.0	289.0	291.3
77.5°	225.9	232.8	239.1	239.7
80°	178.3	186.9	189.2	195.0
82.5°	131.3	139.3	137.6	139.9
85°	86.6	89.5	91.2	91.7
87.5°	45.9	47.6	48.7	49.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243512
 CATALOG NUMBER: S124DRP-H1195D930-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	19.34	20.91	19.70	21.23	21.54	19.63	21.20	19.99	21.51	21.83
	3H	20.78	22.20	21.16	22.52	22.88	21.01	22.43	21.39	22.76	23.12
	4H	21.30	22.63	21.70	22.98	23.36	21.50	22.83	21.90	23.18	23.55
	6H	21.65	22.88	22.06	23.24	23.63	21.81	23.04	22.22	23.41	23.80
	8H	21.74	22.92	22.17	23.31	23.71	21.90	23.07	22.32	23.46	23.86
	12H	21.79	22.92	22.22	23.30	23.73	21.94	23.07	22.37	23.45	23.88
4H	2H	20.48	21.81	20.87	22.15	22.53	20.42	21.75	20.82	22.10	22.47
	3H	21.98	23.09	22.39	23.49	23.89	22.12	23.23	22.53	23.63	24.03
	4H	22.55	23.55	22.98	23.97	24.41	22.72	23.72	23.15	24.13	24.57
	6H	22.97	23.84	23.42	24.28	24.74	23.12	23.99	23.57	24.43	24.89
	8H	23.08	23.90	23.54	24.34	24.81	23.22	24.04	23.69	24.48	24.95
	12H	23.16	23.89	23.64	24.37	24.84	23.29	24.02	23.77	24.50	24.97
8H	4H	22.98	23.80	23.44	24.24	24.71	23.06	23.87	23.52	24.32	24.78
	6H	23.48	24.15	23.97	24.64	25.12	23.59	24.27	24.08	24.76	25.23
	8H	23.64	24.25	24.15	24.76	25.24	23.75	24.36	24.26	24.87	25.35
	12H	23.76	24.29	24.26	24.79	25.35	23.87	24.40	24.38	24.90	25.46
12H	4H	23.02	23.75	23.50	24.23	24.70	23.09	23.82	23.57	24.30	24.77
	6H	23.54	24.15	24.06	24.66	25.15	23.65	24.26	24.16	24.77	25.25
	8H	23.76	24.29	24.26	24.79	25.35	23.87	24.41	24.38	24.90	25.46