

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: P243517

Luminaire Tested: S124DRP-H1195D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243517
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-H1195D935-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

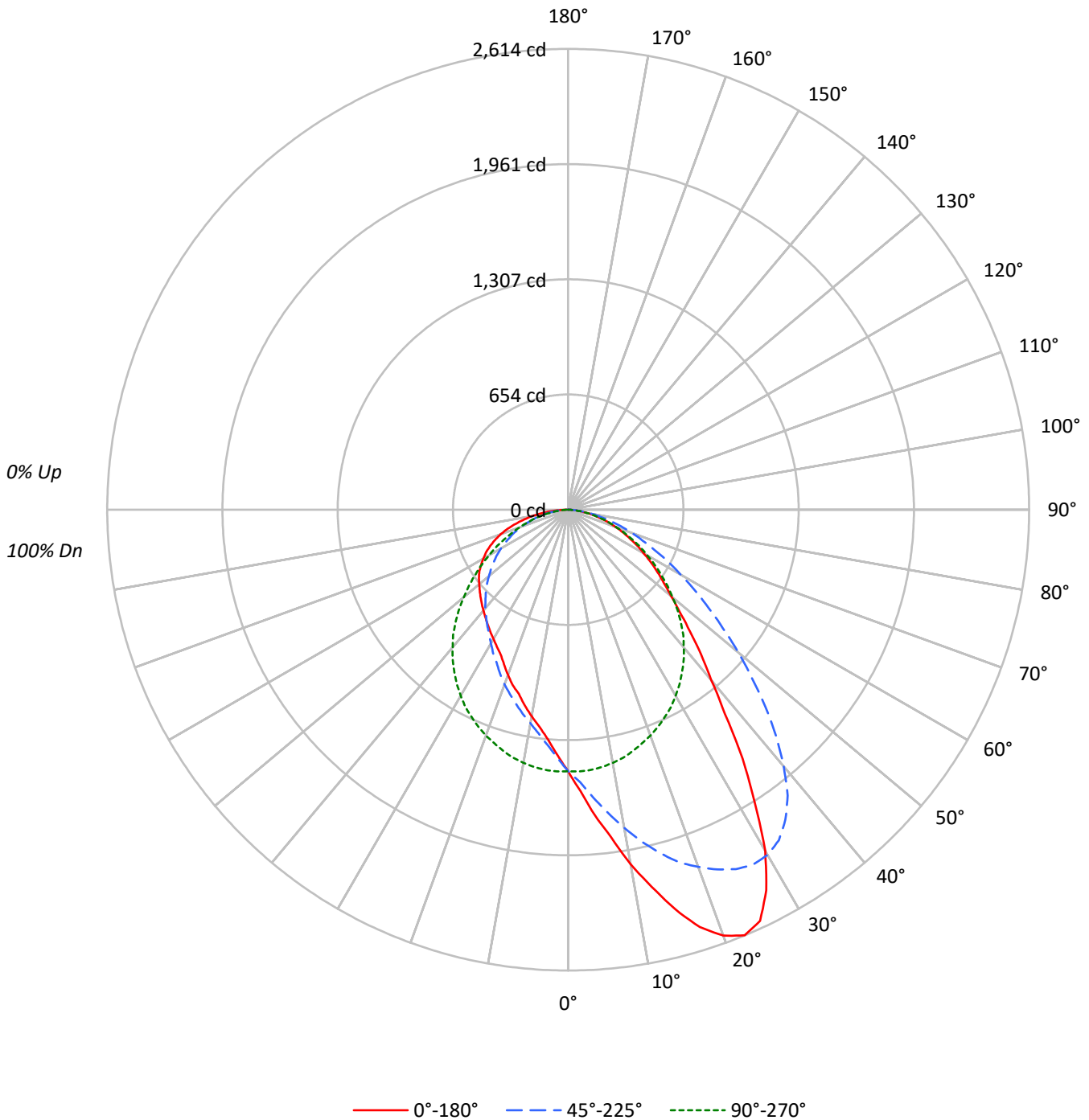
Lumens per Lamp: N/A
Luminaire Lumens: 4254.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

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	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°	13188	13188	13188	13188	13188
5°	15518	14632	13222	11952	11671
10°	18441	16545	13162	11107	10745
15°	21599	18557	13045	10499	9952
20°	24322	20393	12894	9973	9440
25°	25241	22064	12722	9408	8885
30°	22923	23208	12506	8987	8690
35°	18701	23301	12209	8687	8634
40°	14644	22056	11825	8481	8670
45°	12255	19891	11350	8289	8830
50°	10518	17392	10685	8106	9094
55°	9610	15071	9966	7967	9534
60°	8805	13079	9227	7836	9883
65°	8075	11335	8445	7578	10266
70°	7428	9931	7618	7334	10575
75°	6615	8548	6697	6841	10564
80°	5518	6941	5487	6322	10540
85°	4202	5191	4141	5681	9883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 20790 cd/sqm



TEST NUMBER: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.4
10°-20°	447.3	10.5
20°-30°	718.5	16.9
30°-40°	821.4	19.3
40°-50°	756.1	17.8
50°-60°	618.4	14.5
60°-70°	440.8	10.4
70°-80°	242.2	5.7
80°-90°	65.1	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°	1310.2	30.8
0°-40°	2131.5	50.1
0°-60°	3506.0	82.4
0°-90°	4254.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1484	1484	1484	1484	1484	
5°	1739	1640	1482	1340	1308	175
15°	2347	2016	1418	1141	1082	669
25°	2574	2250	1297	959	906	1155
35°	1723	2147	1125	800	796	1071
45°	975	1582	903	659	702	761
55°	620	972	643	514	615	556
65°	384	539	402	360	488	383
75°	193	249	195	199	308	206
85°	41	51	41	56	97	49
90°	0	0	0	0	0	



TEST NUMBER: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1597.4	1592.6	1590.2	1587.1	1586.5	1583.5	1577.5	1569.0	1558.1	1546.6	1546.6
5°	1739.1	1737.9	1728.8	1729.4	1717.9	1705.2	1695.5	1683.4	1659.8	1639.8	1625.9
7.5°	1874.8	1887.5	1884.5	1874.8	1857.8	1839.7	1820.3	1803.3	1759.7	1735.5	1715.5
10°	2043.1	2048.0	2039.5	2025.6	2010.4	1975.3	1949.9	1921.4	1874.2	1833.0	1796.7
12.5°	2190.9	2202.4	2187.2	2173.9	2138.2	2112.2	2086.7	2029.8	1980.1	1928.1	1875.4
15°	2347.1	2335.0	2342.9	2310.2	2284.7	2259.9	2195.1	2137.0	2080.7	2016.5	1961.4
17.5°	2482.8	2482.8	2468.2	2447.0	2420.4	2373.8	2309.0	2244.8	2182.4	2098.2	2020.1
20°	2571.2	2577.8	2560.9	2538.5	2506.4	2457.9	2406.5	2336.8	2253.9	2155.8	2067.3
22.5°	2613.6	2614.8	2608.7	2589.9	2563.9	2522.7	2470.0	2402.2	2314.4	2209.0	2116.4
25°	2573.6	2580.2	2578.4	2577.2	2563.9	2540.3	2497.9	2434.9	2355.0	2249.6	2149.7
27.5°	2433.1	2449.4	2463.4	2469.4	2484.0	2485.2	2472.5	2434.3	2368.9	2269.6	2158.2
30°	2233.3	2224.8	2262.3	2281.1	2330.8	2360.4	2381.6	2379.2	2341.7	2261.1	2155.1
32.5°	1966.8	1989.8	2016.5	2060.7	2119.4	2188.5	2240.5	2279.3	2275.7	2223.0	2134.6
35°	1723.4	1723.4	1757.3	1811.8	1874.2	1957.1	2044.3	2116.4	2160.6	2147.3	2084.9
37.5°	1459.4	1475.7	1514.5	1556.9	1633.2	1713.1	1828.2	1923.8	2016.5	2044.3	2012.2
40°	1262.0	1269.2	1310.4	1346.1	1424.3	1507.2	1603.5	1725.8	1832.4	1900.8	1905.1
42.5°	1115.4	1114.8	1131.8	1163.9	1226.8	1300.7	1404.9	1524.8	1649.5	1746.4	1791.8
45°	974.9	973.7	991.3	1024.0	1068.8	1134.2	1224.4	1344.3	1472.1	1582.3	1653.8
47.5°	856.2	867.1	875.0	900.5	937.4	993.1	1070.6	1166.3	1289.2	1412.7	1509.0
50°	760.6	765.4	782.4	794.5	835.7	874.4	936.8	1022.8	1128.1	1257.7	1361.9
52.5°	684.3	687.3	697.6	713.3	737.0	770.9	820.5	899.8	994.9	1107.5	1215.3
55°	620.1	618.3	624.9	635.2	655.8	684.3	720.6	781.2	864.1	972.5	1071.8
57.5°	557.1	557.1	563.2	570.4	581.9	605.5	641.3	689.1	755.7	852.0	939.8
60°	495.3	499.6	502.0	509.3	519.0	536.5	563.2	600.7	657.0	735.7	822.9
62.5°	440.8	440.8	445.1	447.5	460.2	472.9	492.3	524.4	568.6	638.9	706.7
65°	383.9	387.6	387.6	392.4	403.3	413.0	428.1	452.3	488.7	538.9	602.5
67.5°	335.5	335.5	338.5	340.9	347.0	353.6	367.0	385.7	416.6	456.6	514.1
70°	285.8	287.6	286.4	289.5	293.1	299.7	309.4	325.2	347.6	382.1	424.5
72.5°	241.0	238.6	239.8	242.8	244.6	248.9	254.9	267.0	285.2	313.1	344.0
75°	192.6	191.4	195.6	194.4	197.4	201.0	206.5	215.6	229.5	248.9	272.5
77.5°	150.2	148.4	150.2	151.4	152.6	155.6	159.9	165.3	175.0	187.7	208.9
80°	107.8	107.2	108.4	109.6	110.2	115.1	116.3	121.7	126.0	135.6	145.9
82.5°	71.5	72.7	73.3	74.5	73.9	76.3	77.5	81.1	84.8	89.6	97.5
85°	41.2	39.4	41.2	41.2	41.2	44.2	43.6	46.0	48.4	50.9	56.3
87.5°	14.5	14.5	15.1	15.7	15.7	17.6	17.0	18.2	20.6	20.6	22.4
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: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1542.9	1536.3	1531.4	1517.5	1509.0	1501.2	1493.9	1486.0	1477.5	1466.6	1460.0
5°	1611.4	1596.8	1575.6	1556.3	1534.5	1515.1	1499.3	1481.8	1462.4	1442.4	1424.9
7.5°	1687.1	1659.8	1627.1	1591.4	1557.5	1529.0	1499.3	1471.5	1444.2	1417.6	1392.8
10°	1762.8	1715.5	1672.5	1623.5	1578.7	1535.7	1496.9	1458.2	1424.3	1389.1	1357.6
12.5°	1833.0	1776.1	1713.1	1651.9	1592.0	1536.3	1488.4	1441.2	1397.6	1355.8	1318.9
15°	1886.9	1815.4	1741.0	1668.3	1599.3	1541.1	1478.8	1417.6	1372.2	1321.3	1280.7
17.5°	1948.7	1863.9	1790.0	1702.8	1616.8	1523.0	1457.0	1390.3	1335.8	1286.8	1246.2
20°	1989.8	1896.6	1790.0	1691.3	1602.9	1518.7	1439.4	1363.1	1305.6	1248.6	1199.6
22.5°	2022.5	1926.3	1808.8	1705.8	1595.0	1493.3	1407.3	1332.2	1264.4	1210.5	1163.9
25°	2039.5	1922.0	1810.0	1685.2	1574.4	1476.9	1380.0	1297.1	1228.7	1168.7	1128.7
27.5°	2040.1	1919.6	1787.0	1663.4	1544.8	1439.4	1343.7	1262.0	1185.1	1127.5	1079.7
30°	2037.1	1903.8	1764.0	1628.9	1510.8	1403.1	1303.1	1218.4	1148.1	1087.0	1041.5
32.5°	2017.7	1882.0	1729.4	1587.8	1459.4	1351.0	1258.9	1174.8	1099.7	1044.0	996.1
35°	1974.1	1834.2	1681.0	1535.1	1413.4	1300.7	1209.9	1125.1	1057.9	997.3	948.3
37.5°	1918.4	1787.6	1632.0	1479.4	1348.0	1241.4	1156.0	1076.1	1005.8	950.1	901.1
40°	1848.1	1725.2	1572.0	1413.4	1281.9	1174.2	1093.6	1019.1	959.2	902.3	854.4
42.5°	1751.9	1657.4	1499.9	1345.5	1208.1	1106.3	1028.2	966.5	904.7	853.2	805.4
45°	1648.9	1562.9	1423.0	1269.8	1137.8	1033.1	959.8	902.9	850.2	798.1	759.4
47.5°	1535.1	1464.8	1335.2	1185.7	1055.5	962.8	890.8	839.9	791.5	751.5	712.7
50°	1399.4	1362.5	1241.4	1105.7	979.2	884.1	824.8	772.7	737.0	698.2	661.9
52.5°	1273.5	1243.8	1145.1	1011.9	896.8	813.3	749.7	708.5	673.4	644.9	615.8
55°	1136.6	1121.5	1037.9	922.9	818.7	735.1	680.6	643.1	615.2	588.6	567.4
57.5°	1010.7	1009.5	935.6	836.9	735.1	664.3	612.2	581.3	557.1	538.3	520.2
60°	881.7	892.0	831.4	741.2	660.7	594.0	546.8	519.0	502.6	485.0	469.9
62.5°	764.8	780.6	725.4	654.6	575.3	520.8	484.4	463.2	445.1	432.4	420.9
65°	652.8	672.8	628.0	564.4	503.8	452.3	421.5	401.5	387.6	380.3	372.4
67.5°	554.1	565.0	534.7	485.0	434.8	390.0	364.5	347.0	334.9	331.8	322.8
70°	455.4	468.1	446.9	401.5	362.7	330.0	307.0	293.1	285.8	281.6	275.5
72.5°	376.0	381.5	360.3	328.8	297.9	270.7	253.7	243.4	235.0	233.1	230.1
75°	294.3	302.2	285.2	261.0	235.6	216.2	203.5	195.0	190.7	187.7	187.7
77.5°	222.2	228.9	219.2	198.0	182.9	165.9	157.4	149.6	147.8	144.7	145.9
80°	158.0	161.1	155.6	141.1	127.8	118.7	111.4	107.2	106.6	104.2	106.6
82.5°	104.8	105.4	99.3	92.6	82.4	77.5	72.7	70.8	70.2	70.2	69.0
85°	58.1	59.3	55.1	50.9	47.2	43.0	41.8	40.6	39.4	41.2	42.4
87.5°	22.4	23.0	22.4	20.6	19.4	18.2	17.6	18.8	17.0	18.2	18.8
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: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1449.7	1444.8	1437.6	1425.5	1417.0	1407.9	1404.3	1405.5	1401.8	1397.0	1398.2
5°	1411.5	1397.6	1385.5	1368.5	1352.8	1339.5	1335.2	1329.8	1324.9	1321.9	1318.9
7.5°	1371.0	1351.6	1333.4	1316.5	1298.3	1281.3	1274.7	1269.8	1267.4	1258.9	1255.3
10°	1332.2	1309.8	1288.0	1268.0	1249.2	1230.5	1223.8	1217.8	1209.3	1205.6	1201.4
12.5°	1291.0	1268.6	1245.0	1220.8	1202.0	1186.9	1175.4	1171.1	1162.7	1159.0	1156.6
15°	1251.1	1223.8	1205.0	1186.3	1157.8	1140.9	1136.0	1120.9	1116.0	1108.8	1103.9
17.5°	1211.1	1185.7	1157.8	1136.0	1118.4	1097.3	1085.7	1079.1	1070.0	1063.3	1054.3
20°	1171.7	1142.1	1120.3	1093.0	1073.6	1054.3	1039.7	1033.7	1025.8	1016.7	1004.0
22.5°	1133.6	1100.9	1079.7	1054.3	1030.0	1007.6	995.5	987.0	971.3	969.5	958.0
25°	1088.8	1059.7	1031.9	1005.2	981.6	959.2	951.3	938.0	932.5	921.6	919.8
27.5°	1046.4	1015.5	985.2	956.2	935.6	919.8	905.9	897.4	892.0	883.5	884.1
30°	1002.2	968.3	939.8	913.2	890.8	875.6	866.5	862.3	854.4	853.2	849.0
32.5°	955.0	924.1	894.4	870.8	847.8	834.4	830.2	826.0	821.1	821.7	820.5
35°	907.7	880.5	849.0	827.2	808.4	800.5	793.9	792.7	790.8	792.1	792.1
37.5°	861.7	832.0	806.0	786.0	775.1	764.2	761.2	760.6	761.2	762.4	765.4
40°	816.9	789.6	764.2	747.9	735.7	730.9	726.7	728.5	730.9	735.1	738.8
42.5°	772.1	746.0	724.8	708.5	697.0	694.6	695.2	698.8	699.4	705.5	712.1
45°	724.8	702.4	682.5	669.7	662.5	659.4	660.7	664.3	668.5	677.0	685.5
47.5°	681.2	661.3	643.7	631.0	625.5	624.3	626.7	631.6	641.3	649.8	659.4
50°	637.0	618.9	602.5	591.0	590.4	586.2	591.6	597.7	609.2	620.7	635.2
52.5°	593.4	575.9	561.9	552.9	550.4	550.4	557.1	568.0	578.3	593.4	606.8
55°	548.0	532.3	519.0	515.9	512.3	514.1	521.4	532.3	546.8	563.8	578.3
57.5°	501.4	488.1	478.4	474.1	472.3	478.4	486.9	498.4	517.1	534.1	549.8
60°	457.2	445.7	435.4	434.2	433.0	440.8	451.1	463.2	482.0	499.0	518.4
62.5°	410.0	400.9	394.2	392.4	392.4	400.3	411.8	427.5	445.1	463.2	483.8
65°	362.1	354.2	352.4	350.0	355.5	360.3	371.8	386.9	405.7	425.7	447.5
67.5°	317.9	313.1	309.4	309.4	313.7	322.8	333.1	348.2	367.6	388.8	408.1
70°	273.7	268.9	265.8	268.9	271.3	282.2	293.1	307.6	325.8	346.4	367.0
72.5°	227.7	228.3	228.9	228.3	230.7	241.0	251.9	265.8	283.4	303.4	322.2
75°	187.1	184.1	184.7	185.9	193.8	199.2	210.1	223.4	242.2	260.4	276.1
77.5°	145.3	144.1	147.1	147.1	154.4	161.1	170.2	183.5	199.8	216.2	228.9
80°	106.6	107.2	109.6	110.2	116.3	123.5	133.2	142.3	156.8	168.3	180.5
82.5°	72.1	73.3	76.3	80.5	83.0	87.2	95.7	105.4	115.7	127.8	135.0
85°	41.8	43.6	46.0	49.0	51.5	55.7	61.8	69.6	76.9	83.6	89.6
87.5°	20.6	20.6	22.4	23.6	25.4	27.9	32.1	35.1	40.0	44.8	47.2
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: P243517

CATALOG NUMBER: S124DRP-H1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1483.6	1483.6	1483.6	1483.6
2.5°	1395.8	1395.2	1392.8	1394.0
5°	1317.1	1311.0	1310.4	1308.0
7.5°	1249.2	1247.4	1247.4	1242.6
10°	1197.2	1191.7	1192.9	1190.5
12.5°	1147.5	1144.5	1140.9	1137.2
15°	1091.8	1091.8	1091.8	1081.5
17.5°	1048.2	1047.6	1044.6	1044.0
20°	1002.8	1000.4	992.5	997.9
22.5°	956.8	955.0	948.3	949.5
25°	913.8	912.0	910.7	905.9
27.5°	876.8	877.4	878.7	875.6
30°	849.0	847.2	849.6	846.6
32.5°	822.9	822.9	820.5	821.1
35°	793.3	795.7	796.3	795.7
37.5°	767.2	770.3	772.7	770.3
40°	743.0	745.4	747.9	747.2
42.5°	717.6	721.8	723.6	725.4
45°	693.4	698.8	701.8	702.4
47.5°	668.5	675.2	681.2	680.6
50°	644.3	652.8	658.2	657.6
52.5°	620.1	628.6	635.2	638.2
55°	592.8	603.7	609.8	615.2
57.5°	565.6	577.7	583.7	586.2
60°	535.3	546.2	554.1	555.9
62.5°	501.4	512.9	523.2	525.6
65°	466.3	479.0	486.9	488.1
67.5°	425.7	437.8	445.7	449.3
70°	383.9	393.0	401.5	406.9
72.5°	337.3	348.2	356.1	359.7
75°	288.8	301.0	305.2	307.6
77.5°	238.6	245.9	252.5	253.1
80°	188.3	197.4	199.8	205.9
82.5°	138.7	147.1	145.3	147.8
85°	91.4	94.5	96.3	96.9
87.5°	48.4	50.3	51.5	52.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243517
 CATALOG NUMBER: S124DRP-H1195D935-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	19.53	21.10	19.89	21.41	21.73	19.82	21.39	20.18	21.70	22.02
	3H	20.97	22.39	21.35	22.71	23.07	21.20	22.62	21.58	22.95	23.31
	4H	21.49	22.82	21.89	23.17	23.55	21.69	23.02	22.09	23.37	23.74
	6H	21.84	23.07	22.25	23.43	23.82	22.00	23.23	22.41	23.60	23.99
	8H	21.93	23.11	22.36	23.50	23.90	22.09	23.26	22.51	23.65	24.05
	12H	21.98	23.11	22.41	23.49	23.92	22.13	23.26	22.56	23.64	24.07
4H	2H	20.67	22.00	21.06	22.34	22.72	20.61	21.94	21.01	22.29	22.66
	3H	22.17	23.28	22.58	23.68	24.08	22.31	23.42	22.72	23.82	24.22
	4H	22.74	23.74	23.17	24.16	24.60	22.91	23.91	23.34	24.32	24.76
	6H	23.16	24.03	23.61	24.47	24.93	23.31	24.18	23.76	24.62	25.08
	8H	23.27	24.09	23.73	24.53	25.00	23.41	24.23	23.88	24.67	25.14
	12H	23.35	24.08	23.83	24.55	25.02	23.48	24.21	23.96	24.69	25.16
8H	4H	23.17	23.99	23.63	24.43	24.90	23.25	24.06	23.71	24.51	24.97
	6H	23.67	24.34	24.16	24.83	25.31	23.78	24.46	24.27	24.94	25.42
	8H	23.83	24.44	24.34	24.94	25.43	23.94	24.55	24.45	25.06	25.54
	12H	23.95	24.48	24.45	24.98	25.54	24.06	24.59	24.56	25.09	25.65
12H	4H	23.21	23.94	23.69	24.42	24.89	23.28	24.01	23.76	24.49	24.96
	6H	23.73	24.34	24.24	24.85	25.34	23.84	24.45	24.35	24.96	25.44
	8H	23.95	24.48	24.45	24.97	25.54	24.06	24.60	24.57	25.09	25.65