

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: P243516

Luminaire Tested: S124DRP-H1020D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243516
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-H1020D935-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

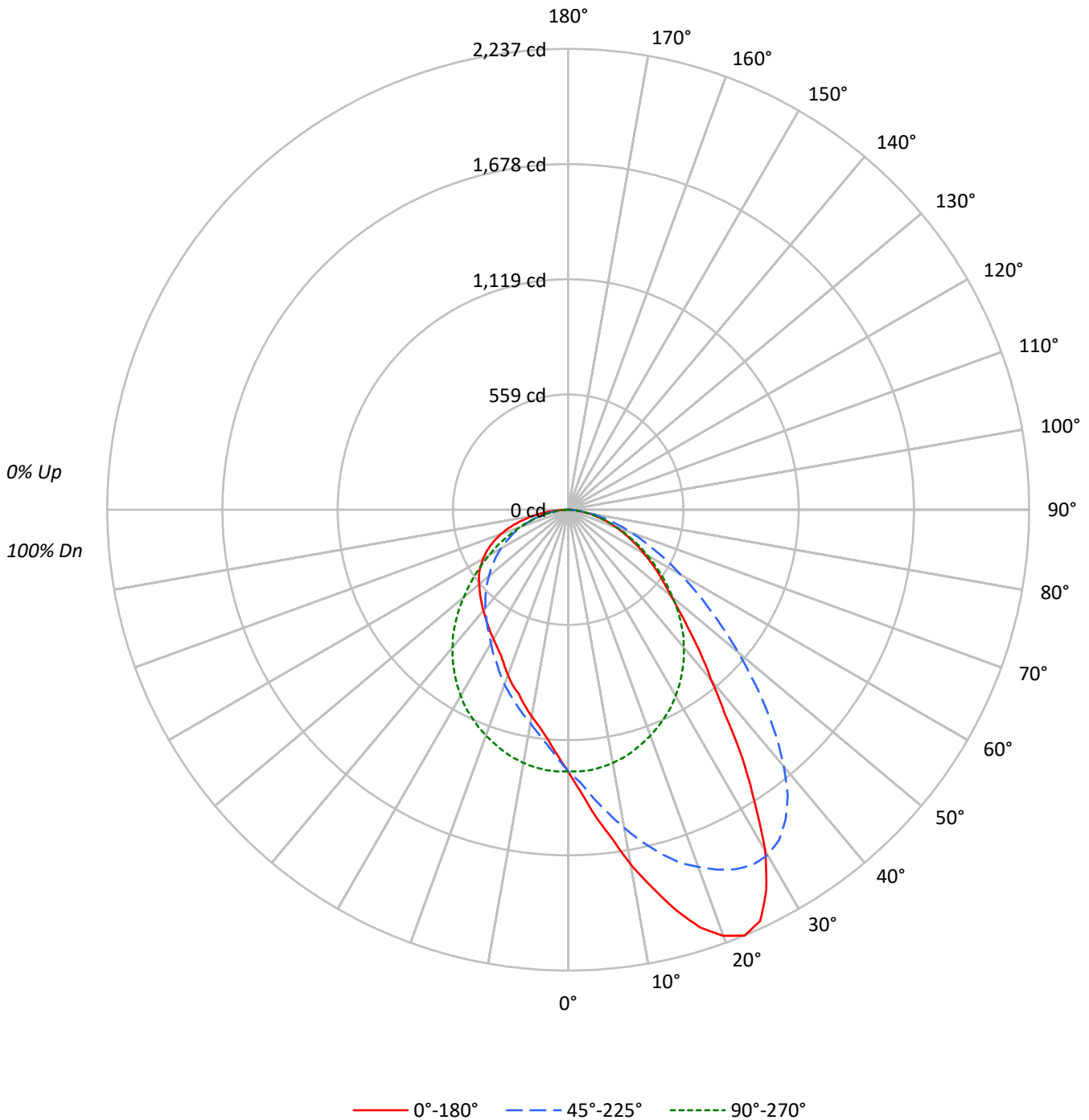
Lumens per Lamp: N/A
Luminaire Lumens: 3641.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	11289	11289	11289	11289	11289
5°	13283	12525	11318	10231	9991
10°	15787	14163	11266	9507	9198
15°	18490	15885	11167	8987	8520
20°	20820	17456	11037	8537	8081
25°	21608	18887	10890	8053	7606
30°	19622	19867	10705	7694	7438
35°	16009	19946	10451	7436	7391
40°	12535	18880	10123	7260	7423
45°	10492	17027	9716	7096	7559
50°	9004	14888	9146	6939	7784
55°	8226	12902	8531	6820	8162
60°	7538	11196	7897	6709	8460
65°	6911	9703	7229	6487	8788
70°	6360	8501	6521	6279	9052
75°	5660	7315	5732	5856	9043
80°	4725	5943	4699	5411	9020
85°	3590	4437	3539	4865	8455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 17797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.4
10°-20°	382.9	10.5
20°-30°	615.1	16.9
30°-40°	703.1	19.3
40°-50°	647.2	17.8
50°-60°	529.4	14.5
60°-70°	377.3	10.4
70°-80°	207.3	5.7
80°-90°	55.7	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°	1121.5	30.8
0°-40°	1824.6	50.1
0°-60°	3001.3	82.4
0°-90°	3641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1270	1270	1270	1270	1270	
5°	1489	1404	1268	1147	1120	150
15°	2009	1726	1214	977	926	573
25°	2203	1926	1110	821	776	989
35°	1475	1838	963	685	681	917
45°	835	1354	773	564	601	651
55°	531	832	550	440	527	476
65°	329	461	344	308	418	328
75°	165	213	167	170	263	176
85°	35	44	35	48	83	42
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°	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0
2.5°	1367.4	1363.3	1361.2	1358.6	1358.1	1355.5	1350.3	1343.1	1333.8	1323.9	1323.9
5°	1488.7	1487.7	1479.9	1480.5	1470.6	1459.7	1451.4	1441.1	1420.8	1403.7	1391.8
7.5°	1604.9	1615.7	1613.2	1604.9	1590.3	1574.8	1558.2	1543.7	1506.4	1485.6	1468.5
10°	1749.0	1753.1	1745.9	1733.9	1721.0	1690.9	1669.1	1644.8	1604.3	1569.1	1538.0
12.5°	1875.4	1885.3	1872.3	1860.9	1830.3	1808.1	1786.3	1737.6	1695.1	1650.5	1605.4
15°	2009.2	1998.8	2005.6	1977.6	1955.8	1934.5	1879.1	1829.3	1781.1	1726.2	1679.0
17.5°	2125.3	2125.3	2112.9	2094.7	2071.9	2032.0	1976.5	1921.6	1868.2	1796.1	1729.3
20°	2201.0	2206.7	2192.2	2173.0	2145.5	2104.0	2060.0	2000.4	1929.4	1845.4	1769.7
22.5°	2237.3	2238.3	2233.1	2217.0	2194.8	2159.5	2114.4	2056.4	1981.2	1891.0	1811.7
25°	2203.1	2208.8	2207.2	2206.2	2194.8	2174.5	2138.3	2084.3	2015.9	1925.7	1840.2
27.5°	2082.8	2096.8	2108.7	2113.9	2126.3	2127.4	2116.5	2083.8	2027.8	1942.8	1847.5
30°	1911.7	1904.5	1936.6	1952.7	1995.2	2020.6	2038.7	2036.7	2004.5	1935.6	1844.9
32.5°	1683.7	1703.3	1726.2	1764.0	1814.3	1873.4	1918.0	1951.1	1948.0	1902.9	1827.2
35°	1475.3	1475.3	1504.3	1550.9	1604.3	1675.4	1750.0	1811.7	1849.5	1838.1	1784.7
37.5°	1249.3	1263.3	1296.4	1332.7	1398.0	1466.5	1564.9	1646.8	1726.2	1750.0	1722.5
40°	1080.3	1086.5	1121.7	1152.3	1219.2	1290.2	1372.6	1477.3	1568.6	1627.1	1630.8
42.5°	954.8	954.3	968.8	996.3	1050.2	1113.4	1202.6	1305.2	1412.0	1495.0	1533.8
45°	834.6	833.5	848.6	876.6	914.9	970.9	1048.1	1150.8	1260.1	1354.5	1415.7
47.5°	733.0	742.3	749.0	770.8	802.4	850.1	916.5	998.4	1103.6	1209.3	1291.8
50°	651.1	655.2	669.7	680.1	715.3	748.5	801.9	875.5	965.7	1076.6	1165.8
52.5°	585.8	588.3	597.2	610.6	630.9	659.9	702.4	770.3	851.7	948.1	1040.4
55°	530.8	529.3	535.0	543.8	561.4	585.8	616.9	668.7	739.7	832.5	917.5
57.5°	476.9	476.9	482.1	488.3	498.1	518.4	548.9	589.9	646.9	729.3	804.5
60°	424.0	427.7	429.7	435.9	444.2	459.3	482.1	514.2	562.4	629.8	704.5
62.5°	377.4	377.4	381.0	383.1	394.0	404.8	421.4	448.9	486.7	546.9	604.9
65°	328.6	331.8	331.8	335.9	345.2	353.5	366.5	387.2	418.3	461.3	515.8
67.5°	287.2	287.2	289.8	291.8	297.0	302.7	314.1	330.2	356.6	390.8	440.1
70°	244.7	246.2	245.2	247.8	250.9	256.6	264.9	278.4	297.5	327.1	363.4
72.5°	206.3	204.2	205.3	207.9	209.4	213.0	218.2	228.6	244.2	268.0	294.4
75°	164.8	163.8	167.4	166.4	169.0	172.1	176.8	184.5	196.5	213.0	233.3
77.5°	128.6	127.0	128.6	129.6	130.6	133.2	136.8	141.5	149.8	160.7	178.8
80°	92.3	91.8	92.8	93.8	94.3	98.5	99.5	104.2	107.8	116.1	124.9
82.5°	61.2	62.2	62.7	63.8	63.2	65.3	66.4	69.5	72.6	76.7	83.5
85°	35.2	33.7	35.2	35.2	35.2	37.8	37.3	39.4	41.5	43.5	48.2
87.5°	12.4	12.4	13.0	13.5	13.5	15.0	14.5	15.6	17.6	17.6	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°	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0
2.5°	1320.8	1315.1	1310.9	1299.0	1291.8	1285.0	1278.8	1272.1	1264.8	1255.5	1249.8
5°	1379.4	1366.9	1348.8	1332.2	1313.5	1296.9	1283.5	1268.4	1251.9	1234.7	1219.7
7.5°	1444.2	1420.8	1392.8	1362.3	1333.2	1308.9	1283.5	1259.6	1236.3	1213.5	1192.2
10°	1509.0	1468.5	1431.7	1389.7	1351.4	1314.6	1281.4	1248.2	1219.2	1189.1	1162.2
12.5°	1569.1	1520.4	1466.5	1414.1	1362.8	1315.1	1274.1	1233.7	1196.4	1160.6	1129.0
15°	1615.2	1554.1	1490.3	1428.1	1369.0	1319.2	1265.8	1213.5	1174.6	1131.1	1096.3
17.5°	1668.1	1595.5	1532.3	1457.6	1384.0	1303.7	1247.2	1190.2	1143.5	1101.5	1066.8
20°	1703.3	1623.5	1532.3	1447.8	1372.1	1300.1	1232.2	1166.8	1117.6	1068.9	1026.9
22.5°	1731.3	1648.9	1548.4	1460.2	1365.4	1278.3	1204.7	1140.4	1082.3	1036.2	996.3
25°	1745.9	1645.3	1549.4	1442.6	1347.7	1264.3	1181.4	1110.3	1051.8	1000.4	966.2
27.5°	1746.4	1643.2	1529.7	1423.9	1322.3	1232.2	1150.3	1080.3	1014.4	965.2	924.2
30°	1743.8	1629.7	1510.0	1394.4	1293.3	1201.1	1115.5	1043.0	982.8	930.5	891.6
32.5°	1727.2	1611.1	1480.5	1359.2	1249.3	1156.5	1077.7	1005.6	941.4	893.7	852.7
35°	1689.9	1570.1	1439.0	1314.1	1209.9	1113.4	1035.7	963.1	905.6	853.7	811.8
37.5°	1642.2	1530.2	1397.0	1266.4	1153.9	1062.6	989.6	921.1	861.0	813.3	771.3
40°	1582.1	1476.8	1345.7	1209.9	1097.4	1005.1	936.2	872.4	821.1	772.4	731.4
42.5°	1499.6	1418.8	1284.0	1151.8	1034.1	947.1	880.2	827.3	774.4	730.4	689.4
45°	1411.5	1337.9	1218.2	1087.0	974.0	884.3	821.6	772.9	727.8	683.2	650.0
47.5°	1314.1	1253.9	1143.0	1015.0	903.5	824.2	762.5	719.0	677.5	643.3	610.1
50°	1197.9	1166.3	1062.6	946.5	838.2	756.8	706.0	661.4	630.9	597.7	566.6
52.5°	1090.1	1064.7	980.2	866.2	767.7	696.2	641.7	606.5	576.4	552.1	527.2
55°	973.0	960.0	888.5	790.0	700.8	629.3	582.6	550.5	526.7	503.9	485.7
57.5°	865.2	864.1	800.9	716.4	629.3	568.6	524.1	497.6	476.9	460.8	445.3
60°	754.7	763.6	711.7	634.5	565.5	508.5	468.1	444.2	430.2	415.2	402.3
62.5°	654.7	668.2	621.0	560.4	492.4	445.8	414.7	396.5	381.0	370.1	360.3
65°	558.8	575.9	537.5	483.1	431.3	387.2	360.8	343.7	331.8	325.5	318.8
67.5°	474.3	483.6	457.7	415.2	372.2	333.8	312.1	297.0	286.7	284.1	276.3
70°	389.8	400.7	382.6	343.7	310.5	282.5	262.8	250.9	244.7	241.0	235.9
72.5°	321.9	326.6	308.4	281.5	255.0	231.7	217.2	208.4	201.1	199.6	197.0
75°	251.9	258.7	244.2	223.4	201.6	185.1	174.2	166.9	163.3	160.7	160.7
77.5°	190.2	195.9	187.6	169.5	156.5	142.0	134.8	128.0	126.5	123.9	124.9
80°	135.3	137.9	133.2	120.8	109.4	101.6	95.4	91.8	91.2	89.2	91.2
82.5°	89.7	90.2	85.0	79.3	70.5	66.4	62.2	60.6	60.1	60.1	59.1
85°	49.8	50.8	47.2	43.5	40.4	36.8	35.8	34.7	33.7	35.2	36.3
87.5°	19.2	19.7	19.2	17.6	16.6	15.6	15.0	16.1	14.5	15.6	16.1
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°	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0	1270.0
2.5°	1241.0	1236.8	1230.6	1220.2	1213.0	1205.2	1202.1	1203.1	1200.0	1195.9	1196.9
5°	1208.3	1196.4	1186.0	1171.5	1158.0	1146.6	1143.0	1138.3	1134.2	1131.6	1129.0
7.5°	1173.6	1157.0	1141.4	1126.9	1111.4	1096.9	1091.2	1087.0	1084.9	1077.7	1074.6
10°	1140.4	1121.2	1102.6	1085.5	1069.4	1053.3	1047.6	1042.4	1035.2	1032.1	1028.4
12.5°	1105.2	1086.0	1065.8	1045.0	1029.0	1016.0	1006.1	1002.5	995.3	992.2	990.1
15°	1070.9	1047.6	1031.5	1015.5	991.1	976.6	972.5	959.5	955.3	949.1	945.0
17.5°	1036.7	1015.0	991.1	972.5	957.4	939.3	929.4	923.7	916.0	910.2	902.5
20°	1003.0	977.6	959.0	935.6	919.1	902.5	890.0	884.8	878.1	870.3	859.4
22.5°	970.4	942.4	924.2	902.5	881.7	862.6	852.2	844.9	831.5	829.9	820.1
25°	932.0	907.1	883.3	860.5	840.3	821.1	814.4	802.9	798.3	789.0	787.4
27.5°	895.7	869.3	843.4	818.5	800.9	787.4	775.5	768.2	763.6	756.3	756.8
30°	857.9	828.9	804.5	781.7	762.5	749.6	741.8	738.2	731.4	730.4	726.7
32.5°	817.5	791.0	765.6	745.4	725.7	714.3	710.7	707.1	702.9	703.4	702.4
35°	777.0	753.7	726.7	708.1	692.0	685.3	679.6	678.5	677.0	678.0	678.0
37.5°	737.6	712.2	689.9	672.8	663.5	654.2	651.6	651.1	651.6	652.6	655.2
40°	699.3	675.9	654.2	640.2	629.8	625.7	622.0	623.6	625.7	629.3	632.4
42.5°	660.9	638.6	620.5	606.5	596.6	594.6	595.1	598.2	598.7	603.9	609.6
45°	620.5	601.3	584.2	573.3	567.1	564.5	565.5	568.6	572.3	579.5	586.8
47.5°	583.2	566.1	551.0	540.1	535.5	534.4	536.5	540.7	548.9	556.2	564.5
50°	545.3	529.8	515.8	505.9	505.4	501.8	506.4	511.6	521.5	531.3	543.8
52.5°	508.0	493.0	481.0	473.3	471.2	471.2	476.9	486.2	495.0	508.0	519.4
55°	469.1	455.6	444.2	441.6	438.5	440.1	446.3	455.6	468.1	482.6	495.0
57.5°	429.2	417.8	409.5	405.9	404.3	409.5	416.8	426.6	442.7	457.2	470.7
60°	391.4	381.5	372.7	371.7	370.6	377.4	386.2	396.5	412.6	427.1	443.7
62.5°	350.9	343.2	337.5	335.9	335.9	342.6	352.5	366.0	381.0	396.5	414.2
65°	310.0	303.2	301.7	299.6	304.3	308.4	318.3	331.2	347.3	364.4	383.1
67.5°	272.1	268.0	264.9	264.9	268.5	276.3	285.1	298.1	314.6	332.8	349.4
70°	234.3	230.2	227.6	230.2	232.2	241.6	250.9	263.3	278.9	296.5	314.1
72.5°	194.9	195.4	195.9	195.4	197.5	206.3	215.6	227.6	242.6	259.7	275.8
75°	160.2	157.6	158.1	159.1	165.9	170.5	179.9	191.3	207.3	222.9	236.4
77.5°	124.4	123.4	126.0	126.0	132.2	137.9	145.7	157.1	171.1	185.1	195.9
80°	91.2	91.8	93.8	94.3	99.5	105.7	114.0	121.8	134.3	144.1	154.5
82.5°	61.7	62.7	65.3	68.9	71.0	74.6	81.9	90.2	99.0	109.4	115.6
85°	35.8	37.3	39.4	42.0	44.1	47.7	52.9	59.6	65.8	71.5	76.7
87.5°	17.6	17.6	19.2	20.2	21.8	23.8	27.5	30.1	34.2	38.4	40.4
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: P243516

CATALOG NUMBER: S124DRP-H1020D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1270.0	1270.0	1270.0	1270.0
2.5°	1194.8	1194.3	1192.2	1193.3
5°	1127.4	1122.3	1121.7	1119.7
7.5°	1069.4	1067.8	1067.8	1063.7
10°	1024.8	1020.1	1021.2	1019.1
12.5°	982.3	979.7	976.6	973.5
15°	934.6	934.6	934.6	925.8
17.5°	897.3	896.8	894.2	893.7
20°	858.4	856.3	849.6	854.3
22.5°	819.0	817.5	811.8	812.8
25°	782.2	780.7	779.6	775.5
27.5°	750.6	751.1	752.1	749.6
30°	726.7	725.2	727.3	724.7
32.5°	704.5	704.5	702.4	702.9
35°	679.1	681.1	681.7	681.1
37.5°	656.8	659.4	661.4	659.4
40°	636.0	638.1	640.2	639.7
42.5°	614.3	617.9	619.4	621.0
45°	593.5	598.2	600.8	601.3
47.5°	572.3	578.0	583.2	582.6
50°	551.5	558.8	563.5	562.9
52.5°	530.8	538.1	543.8	546.4
55°	507.5	516.8	522.0	526.7
57.5°	484.2	494.5	499.7	501.8
60°	458.2	467.6	474.3	475.9
62.5°	429.2	439.1	447.9	449.9
65°	399.1	410.0	416.8	417.8
67.5°	364.4	374.8	381.5	384.6
70°	328.6	336.4	343.7	348.3
72.5°	288.7	298.1	304.8	307.9
75°	247.3	257.6	261.3	263.3
77.5°	204.2	210.5	216.2	216.7
80°	161.2	169.0	171.1	176.2
82.5°	118.7	126.0	124.4	126.5
85°	78.3	80.9	82.4	82.9
87.5°	41.5	43.0	44.1	44.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243516
 CATALOG NUMBER: S124DRP-H1020D935-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	18.99	20.56	19.35	20.87	21.19	19.28	20.85	19.64	21.16	21.48
	3H	20.43	21.85	20.81	22.17	22.53	20.66	22.08	21.04	22.41	22.77
	4H	20.95	22.28	21.35	22.63	23.01	21.15	22.48	21.55	22.83	23.20
	6H	21.30	22.53	21.71	22.89	23.28	21.46	22.69	21.87	23.06	23.45
	8H	21.39	22.57	21.82	22.96	23.36	21.55	22.72	21.97	23.11	23.51
	12H	21.44	22.57	21.87	22.95	23.38	21.59	22.72	22.02	23.10	23.53
4H	2H	20.13	21.46	20.52	21.80	22.18	20.07	21.40	20.47	21.75	22.12
	3H	21.63	22.74	22.04	23.14	23.54	21.77	22.88	22.18	23.28	23.68
	4H	22.20	23.20	22.63	23.62	24.06	22.37	23.37	22.80	23.78	24.22
	6H	22.62	23.49	23.07	23.93	24.39	22.77	23.64	23.22	24.08	24.54
	8H	22.73	23.55	23.19	23.99	24.46	22.87	23.69	23.34	24.13	24.60
	12H	22.81	23.54	23.29	24.01	24.48	22.94	23.67	23.42	24.15	24.62
8H	4H	22.63	23.45	23.09	23.89	24.36	22.71	23.52	23.17	23.97	24.43
	6H	23.13	23.80	23.62	24.29	24.77	23.24	23.92	23.73	24.40	24.88
	8H	23.29	23.90	23.80	24.40	24.89	23.40	24.01	23.91	24.52	25.00
	12H	23.41	23.94	23.91	24.43	25.00	23.52	24.05	24.02	24.55	25.11
12H	4H	22.67	23.40	23.15	23.88	24.35	22.74	23.47	23.22	23.95	24.42
	6H	23.19	23.80	23.70	24.31	24.80	23.30	23.91	23.81	24.42	24.90
	8H	23.41	23.94	23.91	24.43	25.00	23.52	24.06	24.03	24.55	25.11