

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: P242632

Luminaire Tested: S124DRP-S1195D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242632  
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-S1195D927-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: -

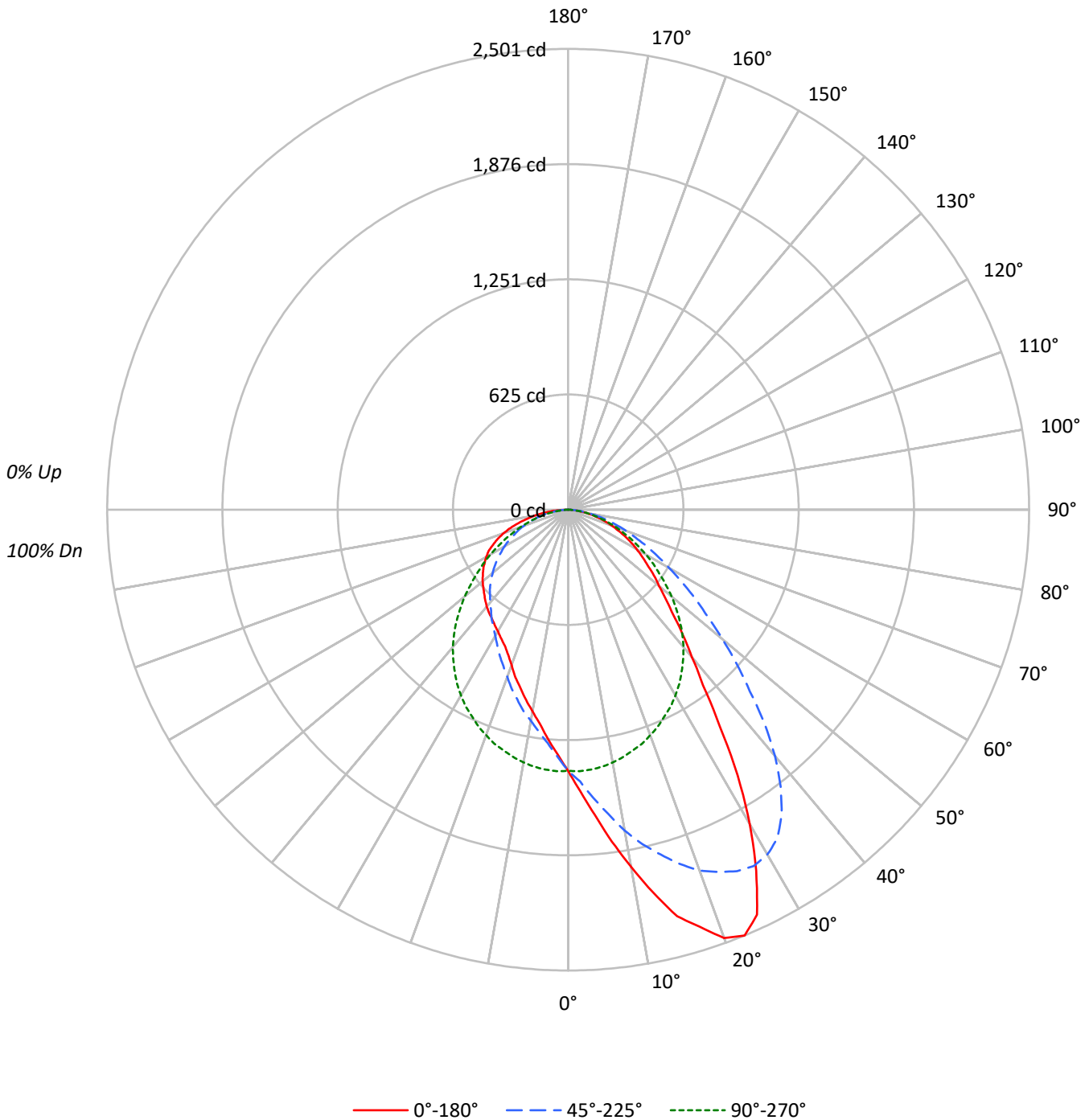
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3910.4 lumens  
Efficiency: N/A  
Efficacy: 95.1 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): 41.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P242632

CATALOG NUMBER: S124DRP-S1195D927-X4F0-XX-UDD-A-W

### 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°	12596	12596	12596	12596	12596
5°	14834	14012	12629	11351	11146
10°	17761	15965	12573	10502	10036
15°	21015	17833	12446	9811	9216
20°	23401	19713	12317	9129	8485
25°	23779	21228	12125	8597	7980
30°	20233	22186	11942	8116	7821
35°	15557	21907	11645	7854	7823
40°	12125	20245	11294	7636	7969
45°	10109	17519	10767	7542	8103
50°	8897	15108	10123	7404	8377
55°	8152	13001	9353	7268	8716
60°	7639	11250	8661	7086	9122
65°	7111	9829	7889	6853	9459
70°	6500	8680	7124	6666	9673
75°	5808	7480	6271	6230	9558
80°	4868	6071	5139	5682	9255
85°	3590	4610	3712	5273	8863

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 19341 cd/sqm



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CATALOG NUMBER: S124DRP-S1195D927-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	3.5
10°-20°	425.7	10.9
20°-30°	676.3	17.3
30°-40°	751.4	19.2
40°-50°	683.4	17.5
50°-60°	558.4	14.3
60°-70°	398.7	10.2
70°-80°	219.3	5.6
80°-90°	59.3	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°	1239.9	31.7
0°-40°	1991.3	50.9
0°-60°	3233.2	82.7
0°-90°	3910.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1417	1417	1417	1417	1417	
5°	1662	1570	1415	1272	1249	168
15°	2284	1938	1352	1066	1002	645
25°	2424	2164	1236	876	814	1075
35°	1434	2019	1073	724	721	907
45°	804	1394	856	600	645	632
55°	526	839	604	469	562	475
65°	338	467	375	326	450	335
75°	169	218	183	181	278	180
85°	35	45	36	52	87	43
90°	0	0	0	0	0	



TEST NUMBER: P242632

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1
2.5°	1531.0	1530.4	1524.5	1523.4	1519.3	1514.0	1512.8	1503.4	1484.6	1475.8	1473.5
5°	1662.5	1674.2	1659.0	1656.0	1654.3	1634.9	1624.9	1613.2	1586.2	1570.3	1558.0
7.5°	1816.3	1816.9	1810.4	1804.0	1792.8	1776.4	1754.1	1728.2	1697.1	1665.4	1643.1
10°	1967.8	1972.5	1964.8	1963.7	1933.7	1914.9	1877.4	1845.7	1809.3	1768.8	1731.8
12.5°	2127.4	2118.0	2115.1	2084.0	2084.6	2046.4	2001.2	1968.3	1907.3	1859.2	1806.9
15°	2283.6	2270.7	2262.5	2227.8	2210.8	2163.2	2116.9	2081.1	2007.7	1937.8	1885.0
17.5°	2374.0	2389.8	2368.7	2354.6	2308.2	2277.1	2230.8	2157.4	2102.8	2015.9	1955.4
20°	2473.8	2475.0	2464.4	2449.7	2415.1	2372.8	2321.2	2239.0	2170.3	2084.0	1992.4
22.5°	2500.8	2500.8	2497.9	2484.4	2460.3	2428.0	2375.8	2310.6	2223.7	2128.0	2036.4
25°	2424.5	2422.1	2427.4	2442.7	2432.7	2422.1	2392.2	2341.1	2263.6	2164.4	2065.8
27.5°	2208.4	2223.7	2255.4	2293.0	2320.0	2344.1	2342.3	2320.6	2265.4	2179.7	2074.6
30°	1971.3	1991.2	2013.6	2051.1	2123.9	2165.6	2211.4	2246.0	2226.6	2161.5	2065.2
32.5°	1710.6	1711.8	1747.6	1791.7	1856.8	1946.6	2025.9	2105.1	2139.2	2112.8	2036.4
35°	1433.6	1441.8	1477.6	1519.9	1601.4	1699.5	1808.7	1906.1	1986.5	2018.8	1977.7
37.5°	1201.1	1226.9	1253.9	1302.1	1376.6	1465.3	1582.7	1704.2	1822.2	1893.8	1901.4
40°	1044.9	1059.6	1077.8	1112.4	1173.5	1260.4	1357.8	1502.2	1629.6	1744.7	1782.3
42.5°	921.7	928.7	938.1	968.6	1011.5	1097.8	1184.6	1307.3	1435.3	1578.6	1647.8
45°	804.2	813.1	831.8	850.0	885.3	945.1	1027.9	1132.4	1261.0	1393.6	1509.9
47.5°	716.2	722.1	733.8	753.8	785.5	826.0	896.4	985.1	1110.7	1239.2	1363.7
50°	643.4	648.1	656.9	674.5	697.4	732.6	787.8	869.4	962.7	1092.5	1214.0
52.5°	585.9	587.0	592.9	603.5	620.5	648.7	691.5	755.5	840.6	952.8	1073.7
55°	526.0	528.3	534.2	543.0	558.9	577.6	612.3	662.8	738.5	838.9	944.0
57.5°	476.7	479.0	483.7	487.2	501.3	517.2	545.4	581.8	641.0	730.3	826.0
60°	429.7	428.5	434.4	437.3	446.2	459.1	479.6	514.2	564.1	632.8	719.1
62.5°	383.9	382.2	386.9	391.0	395.1	405.6	421.5	446.7	484.9	545.4	617.0
65°	338.1	335.8	338.7	343.4	348.1	354.0	366.3	390.4	422.7	467.3	524.2
67.5°	291.2	294.1	294.1	297.0	300.0	308.2	317.0	335.8	358.7	395.1	445.6
70°	250.1	250.7	253.0	253.0	254.8	261.8	268.9	278.8	301.2	334.0	373.4
72.5°	209.0	211.9	210.2	212.5	213.7	217.8	222.5	231.9	250.1	272.4	304.1
75°	169.1	170.8	170.8	171.4	173.2	174.9	179.0	186.1	199.6	217.8	240.7
77.5°	130.3	130.3	131.5	133.8	133.8	136.8	140.3	145.6	153.2	166.7	181.4
80°	95.1	96.3	95.7	96.9	96.9	99.2	100.4	107.4	110.4	118.6	129.7
82.5°	63.4	64.6	64.6	66.3	67.5	67.5	69.3	71.0	74.0	81.0	83.9
85°	35.2	36.4	35.2	36.4	38.2	38.7	40.5	41.1	43.4	45.2	49.3
87.5°	12.9	14.7	14.7	15.3	16.4	17.0	17.6	17.0	19.4	20.0	22.3
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: P242632

CATALOG NUMBER: S124DRP-S1195D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1
2.5°	1474.1	1465.8	1460.0	1455.3	1442.4	1434.7	1428.9	1420.6	1411.2	1401.3	1388.9
5°	1545.7	1525.7	1511.0	1488.7	1467.6	1450.0	1431.8	1415.4	1395.4	1373.7	1357.8
7.5°	1619.1	1591.5	1554.5	1525.7	1491.1	1461.1	1434.7	1407.1	1377.8	1349.6	1323.2
10°	1688.3	1650.2	1607.9	1558.0	1511.0	1469.4	1430.6	1393.0	1356.7	1320.3	1289.1
12.5°	1762.9	1713.0	1645.5	1585.0	1531.0	1471.7	1423.0	1374.9	1329.1	1290.3	1252.7
15°	1828.0	1759.4	1687.2	1609.1	1539.8	1474.6	1410.7	1352.5	1303.2	1252.7	1217.5
17.5°	1869.1	1784.0	1706.5	1624.9	1545.1	1463.5	1397.2	1332.0	1270.9	1221.6	1177.6
20°	1909.6	1825.1	1722.4	1640.8	1541.0	1456.4	1376.6	1302.1	1237.5	1184.1	1138.3
22.5°	1944.9	1843.9	1741.2	1627.3	1528.1	1437.1	1347.8	1272.7	1206.4	1149.4	1106.0
25°	1953.1	1841.0	1729.4	1622.6	1509.9	1403.6	1324.4	1236.3	1165.9	1106.6	1059.6
27.5°	1956.0	1837.4	1713.6	1597.3	1481.1	1384.2	1280.9	1204.0	1131.2	1068.4	1023.8
30°	1949.6	1824.5	1688.9	1560.4	1443.5	1336.1	1249.2	1163.5	1089.0	1026.7	979.8
32.5°	1929.0	1797.5	1657.2	1519.3	1397.2	1292.7	1202.3	1121.8	1049.6	988.6	938.7
35°	1885.6	1757.0	1608.5	1467.0	1343.2	1236.9	1155.9	1073.1	1000.3	942.2	894.7
37.5°	1827.5	1707.7	1556.8	1409.5	1290.3	1182.3	1100.7	1024.4	958.6	898.8	849.4
40°	1746.4	1644.3	1492.8	1350.2	1218.7	1117.1	1042.0	973.3	908.2	852.4	806.0
42.5°	1653.1	1567.4	1430.6	1277.4	1151.8	1049.6	976.8	917.0	856.5	806.0	759.6
45°	1538.6	1479.9	1348.4	1208.7	1076.6	980.4	910.5	856.5	804.8	754.3	715.6
47.5°	1411.2	1378.4	1263.9	1130.1	1003.3	907.0	846.5	794.9	747.9	703.9	669.2
50°	1282.7	1268.6	1172.9	1044.9	925.2	835.9	774.9	732.0	693.3	655.7	623.4
52.5°	1155.9	1158.8	1074.9	960.4	851.8	766.7	706.2	666.9	634.6	605.8	577.6
55°	1026.1	1042.6	975.1	870.6	771.4	693.9	639.3	603.5	580.0	554.8	533.0
57.5°	907.0	934.6	875.9	780.2	696.2	622.3	574.1	546.5	520.7	504.3	487.2
60°	790.7	816.6	773.1	695.6	617.6	556.5	511.3	487.2	465.5	455.0	443.8
62.5°	687.4	709.7	680.4	609.9	544.8	486.7	450.3	427.4	414.5	402.7	396.3
65°	590.0	609.3	581.8	529.5	471.4	424.4	393.3	375.1	361.0	356.3	348.1
67.5°	493.7	511.3	496.6	450.8	401.5	364.6	339.9	320.5	312.3	307.6	302.3
70°	409.8	427.4	411.5	372.8	337.0	307.0	284.1	274.1	265.3	263.6	255.4
72.5°	338.7	349.3	333.4	305.3	275.9	251.8	235.4	224.8	221.3	217.8	214.3
75°	264.8	275.3	264.8	241.3	219.6	201.9	186.7	182.6	177.3	175.5	172.6
77.5°	198.4	208.4	200.2	184.3	167.3	152.6	143.8	138.0	137.4	133.8	135.0
80°	143.2	149.1	141.5	131.5	118.6	109.2	103.3	100.4	96.9	95.7	98.0
82.5°	92.8	94.5	91.6	85.7	76.9	71.6	68.1	64.6	64.6	65.2	64.6
85°	53.4	52.8	52.2	46.4	43.4	39.3	37.0	36.4	35.8	37.0	38.2
87.5°	22.3	22.9	22.3	20.0	18.2	16.4	15.9	15.3	15.9	16.4	17.0
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°	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1	1417.1
2.5°	1383.1	1377.8	1370.2	1359.6	1350.8	1341.4	1339.0	1335.5	1342.6	1336.7	1334.9
5°	1344.3	1332.0	1316.1	1297.9	1287.4	1272.1	1269.2	1263.3	1257.4	1256.9	1251.0
7.5°	1303.8	1286.8	1266.8	1248.0	1231.6	1215.2	1204.6	1203.4	1194.0	1189.3	1183.5
10°	1265.1	1242.8	1218.7	1201.1	1181.1	1163.5	1151.2	1144.1	1138.3	1131.8	1125.9
12.5°	1219.3	1195.2	1176.4	1157.1	1132.4	1120.1	1097.8	1084.3	1084.3	1086.0	1068.4
15°	1185.8	1162.3	1131.8	1104.8	1091.9	1066.1	1054.9	1040.8	1032.0	1023.2	1016.2
17.5°	1144.7	1116.0	1092.5	1062.0	1037.9	1018.5	1003.3	995.6	981.5	968.6	959.8
20°	1106.6	1075.5	1050.2	1017.3	990.3	965.1	952.8	941.0	931.0	920.5	910.5
22.5°	1067.8	1035.0	1002.7	971.0	946.3	919.3	907.6	890.5	881.1	876.5	866.5
25°	1026.7	991.5	956.3	925.8	899.9	876.5	860.6	848.3	837.7	833.0	826.6
27.5°	982.1	947.5	914.0	878.8	848.9	831.8	818.9	808.9	802.5	795.4	792.5
30°	939.9	903.5	867.1	834.8	807.8	790.7	779.0	772.5	767.9	764.9	762.0
32.5°	897.0	861.2	822.4	793.7	770.2	755.5	747.3	740.8	739.1	738.5	737.9
35°	850.6	814.2	779.0	752.6	729.7	723.8	716.2	712.7	711.5	715.6	717.4
37.5°	806.0	772.0	739.1	712.7	697.4	688.0	685.1	684.5	688.6	692.1	696.2
40°	763.2	730.3	699.8	677.4	663.4	658.1	656.9	659.8	664.5	668.6	673.3
42.5°	721.5	689.2	662.2	641.6	632.8	628.1	629.3	632.2	639.3	644.6	652.2
45°	678.0	651.0	624.0	607.0	598.8	600.0	600.0	605.2	611.7	619.3	627.0
47.5°	637.5	609.9	587.0	572.4	568.3	566.5	569.4	576.5	585.3	594.1	604.7
50°	596.4	570.6	551.2	538.3	533.6	535.4	540.1	546.5	557.7	569.4	580.6
52.5°	554.8	531.9	514.2	502.5	499.6	503.1	507.8	518.9	528.3	541.3	555.3
55°	511.3	491.4	477.3	468.5	467.3	469.0	474.3	485.5	499.6	515.4	528.3
57.5°	468.5	451.4	437.9	431.5	432.1	433.2	441.5	455.0	469.0	486.1	502.5
60°	425.0	409.8	399.2	394.5	395.1	398.6	409.2	421.5	440.3	456.7	474.3
62.5°	383.9	371.0	361.0	356.9	355.7	364.6	374.5	387.4	406.2	425.0	444.4
65°	339.3	328.7	320.5	318.2	319.9	325.8	338.7	355.7	371.6	391.0	410.9
67.5°	295.9	287.1	281.2	282.4	284.1	292.3	303.5	318.2	335.8	355.7	376.3
70°	254.8	246.6	241.9	242.4	246.0	256.5	265.9	280.6	300.0	320.5	337.0
72.5°	212.5	207.8	203.7	206.6	210.2	216.6	228.9	243.6	260.1	278.8	296.5
75°	169.7	169.7	167.3	169.1	174.4	181.4	190.2	205.5	222.5	237.8	251.8
77.5°	133.3	131.5	132.7	134.4	138.0	146.8	156.7	167.9	181.4	197.2	209.0
80°	96.3	96.9	99.8	103.3	104.5	111.0	121.5	131.5	141.5	154.4	165.5
82.5°	66.3	66.9	68.1	72.8	74.0	81.0	86.9	96.9	105.7	113.3	122.1
85°	39.3	39.3	42.3	44.0	47.0	51.7	55.8	61.6	69.9	75.7	84.5
87.5°	18.8	18.8	21.1	22.3	24.1	27.0	28.2	34.6	37.0	39.9	45.2
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: P242632

CATALOG NUMBER: S124DRP-S1195D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1417.1	1417.1	1417.1	1417.1
2.5°	1333.8	1332.6	1328.5	1327.9
5°	1247.5	1244.5	1242.8	1249.2
7.5°	1182.3	1180.0	1174.7	1172.9
10°	1120.1	1117.7	1113.0	1111.9
12.5°	1060.2	1054.9	1054.9	1056.7
15°	1008.5	1006.2	999.7	1001.5
17.5°	955.7	953.4	944.5	953.4
20°	906.4	901.7	897.6	897.0
22.5°	859.4	855.3	855.9	851.2
25°	821.9	817.7	816.6	813.6
27.5°	791.3	789.0	786.6	787.8
30°	763.7	763.2	762.0	762.0
32.5°	740.8	740.8	742.0	742.0
35°	719.7	721.5	722.6	720.9
37.5°	700.9	702.1	703.9	705.6
40°	678.6	682.7	683.9	686.8
42.5°	657.5	662.2	665.7	665.7
45°	635.8	640.5	644.6	644.6
47.5°	613.5	619.9	624.0	624.6
50°	590.6	598.8	602.9	605.8
52.5°	568.3	576.5	582.3	583.5
55°	541.8	553.6	560.0	562.4
57.5°	518.4	528.9	536.0	537.7
60°	490.2	501.9	511.3	513.1
62.5°	461.4	473.7	482.0	487.2
65°	427.4	439.7	447.9	449.7
67.5°	391.6	404.5	409.8	413.3
70°	353.4	363.4	369.2	372.2
72.5°	310.0	320.5	327.6	327.6
75°	265.3	274.7	278.3	278.3
77.5°	219.0	224.2	228.9	230.1
80°	174.4	177.3	180.8	180.8
82.5°	128.6	130.9	134.4	133.8
85°	83.4	88.6	88.1	86.9
87.5°	47.0	47.6	49.3	50.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242632  
 CATALOG NUMBER: S124DRP-S1195D927-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	18.77	20.33	19.13	20.64	20.96	19.68	21.24	20.05	21.56	21.87
	3H	20.25	21.66	20.63	21.99	22.35	21.05	22.45	21.42	22.78	23.14
	4H	20.79	22.11	21.19	22.46	22.84	21.52	22.84	21.92	23.19	23.57
	6H	21.15	22.37	21.56	22.74	23.13	21.83	23.05	22.24	23.42	23.81
	8H	21.25	22.42	21.68	22.81	23.21	21.91	23.07	22.33	23.46	23.86
	12H	21.31	22.42	21.74	22.80	23.23	21.95	23.06	22.38	23.45	23.87
4H	2H	19.93	21.25	20.33	21.60	21.98	20.37	21.69	20.77	22.04	22.41
	3H	21.46	22.56	21.87	22.96	23.36	22.07	23.18	22.48	23.57	23.98
	4H	22.05	23.04	22.48	23.46	23.89	22.66	23.66	23.09	24.07	24.51
	6H	22.47	23.34	22.93	23.78	24.24	23.06	23.93	23.52	24.37	24.83
	8H	22.60	23.41	23.06	23.85	24.32	23.16	23.98	23.63	24.42	24.89
	12H	22.67	23.40	23.15	23.88	24.35	23.23	23.96	23.71	24.43	24.90
8H	4H	22.50	23.31	22.96	23.76	24.22	22.98	23.79	23.44	24.23	24.70
	6H	23.01	23.68	23.50	24.17	24.65	23.51	24.18	24.00	24.67	25.14
	8H	23.18	23.78	23.69	24.29	24.78	23.67	24.27	24.18	24.78	25.27
	12H	23.30	23.83	23.81	24.33	24.89	23.78	24.31	24.29	24.81	25.37
12H	4H	22.55	23.28	23.03	23.75	24.22	23.01	23.74	23.49	24.21	24.68
	6H	23.08	23.69	23.59	24.19	24.68	23.56	24.17	24.07	24.67	25.16
	8H	23.30	23.84	23.81	24.33	24.89	23.78	24.32	24.29	24.81	25.37