

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: P242635

Luminaire Tested: S124DRP-S795D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242635  
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-S795D830-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

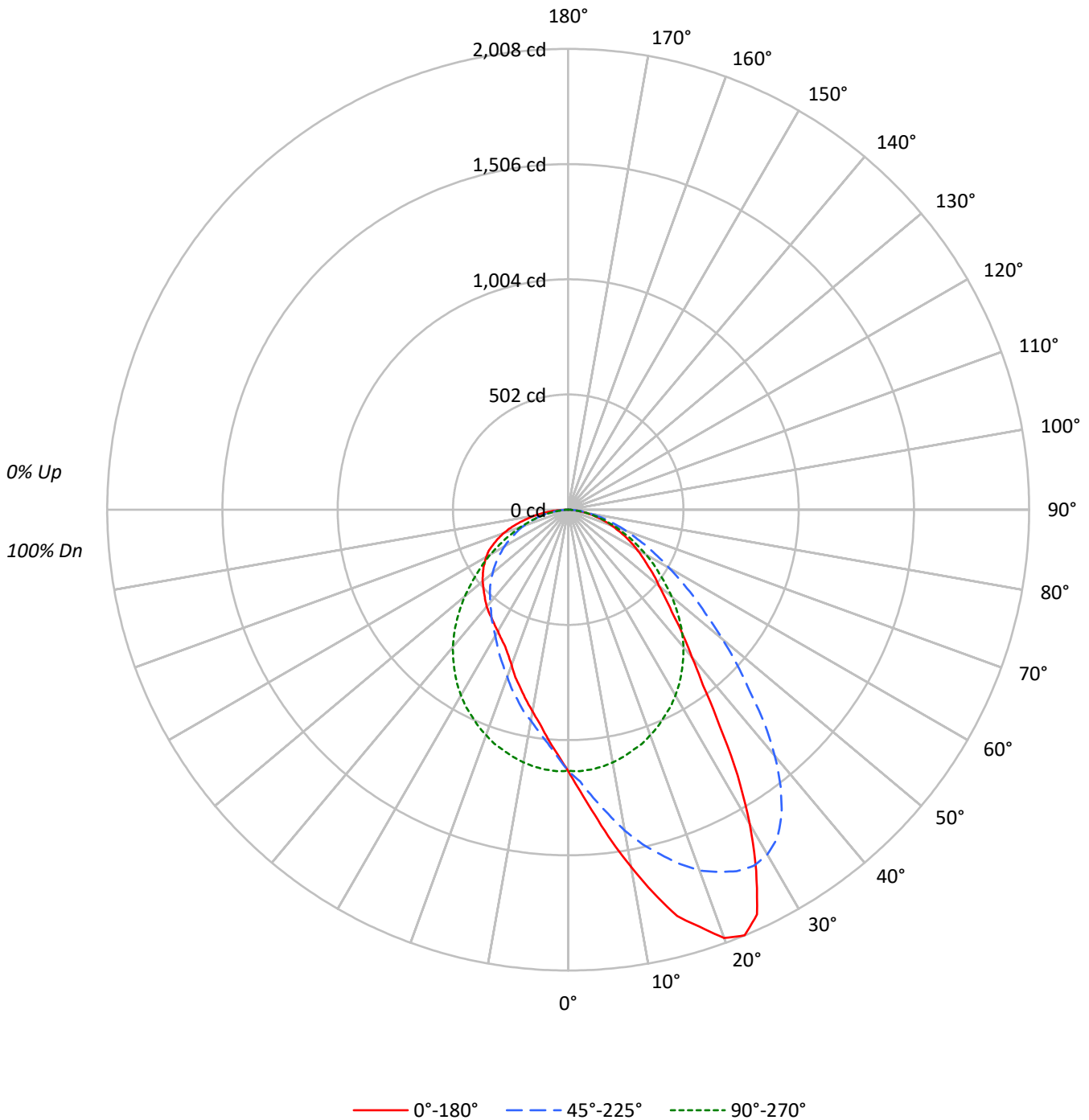
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3139.3 lumens  
Efficiency: N/A  
Efficacy: 118.9 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): 26.4  
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°	10113	10113	10113	10113	10113
5°	11908	11249	10138	9113	8949
10°	14258	12816	10094	8431	8057
15°	16871	14316	9992	7875	7399
20°	18785	15826	9888	7329	6812
25°	19090	17042	9734	6901	6406
30°	16243	17810	9588	6516	6279
35°	12489	17587	9348	6306	6280
40°	9734	16252	9067	6130	6398
45°	8116	14064	8644	6054	6505
50°	7143	12128	8127	5944	6726
55°	6545	10437	7508	5835	6997
60°	6133	9031	6955	5689	7323
65°	5710	7889	6333	5502	7593
70°	5219	6970	5720	5351	7766
75°	4660	6003	5035	5001	7672
80°	3906	4873	4126	4561	7433
85°	2886	3702	2978	4233	7109

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 15527 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	3.5
10°-20°	341.8	10.9
20°-30°	542.9	17.3
30°-40°	603.2	19.2
40°-50°	548.6	17.5
50°-60°	448.3	14.3
60°-70°	320.0	10.2
70°-80°	176.1	5.6
80°-90°	47.6	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°	995.4	31.7
0°-40°	1598.6	50.9
0°-60°	2595.6	82.7
0°-90°	3139.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1138	1138	1138	1138	1138	
5°	1335	1261	1136	1021	1003	135
15°	1833	1556	1086	856	804	518
25°	1946	1738	992	704	653	863
35°	1151	1621	862	581	579	729
45°	646	1119	688	482	518	507
55°	422	674	484	376	452	381
65°	272	375	301	262	361	269
75°	136	175	147	146	223	144
85°	28	36	29	42	70	35
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°	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1229.1	1228.6	1223.9	1223.0	1219.7	1215.4	1214.5	1206.9	1191.9	1184.8	1182.9
5°	1334.6	1344.1	1331.8	1329.5	1328.1	1312.5	1304.5	1295.1	1273.4	1260.7	1250.8
7.5°	1458.1	1458.6	1453.4	1448.2	1439.3	1426.1	1408.2	1387.4	1362.5	1337.0	1319.1
10°	1579.7	1583.5	1577.4	1576.4	1552.4	1537.3	1507.1	1481.7	1452.5	1419.9	1390.3
12.5°	1707.9	1700.4	1698.0	1673.0	1673.5	1642.9	1606.6	1580.2	1531.2	1492.5	1450.6
15°	1833.3	1822.9	1816.3	1788.5	1774.8	1736.6	1699.4	1670.7	1611.8	1555.7	1513.3
17.5°	1905.8	1918.6	1901.6	1890.3	1853.0	1828.1	1790.8	1731.9	1688.1	1618.4	1569.8
20°	1985.9	1986.9	1978.4	1966.6	1938.8	1904.9	1863.4	1797.4	1742.3	1673.0	1599.5
22.5°	2007.6	2007.6	2005.3	1994.4	1975.1	1949.2	1907.2	1854.9	1785.2	1708.4	1634.8
25°	1946.4	1944.5	1948.7	1961.0	1953.0	1944.5	1920.4	1879.4	1817.2	1737.6	1658.4
27.5°	1772.9	1785.2	1810.6	1840.8	1862.5	1881.8	1880.4	1862.9	1818.6	1749.8	1665.5
30°	1582.5	1598.6	1616.5	1646.6	1705.1	1738.5	1775.3	1803.1	1787.5	1735.2	1657.9
32.5°	1373.3	1374.2	1403.0	1438.3	1490.6	1562.7	1626.4	1690.0	1717.3	1696.1	1634.8
35°	1150.9	1157.4	1186.2	1220.1	1285.6	1364.3	1452.0	1530.2	1594.8	1620.7	1587.7
37.5°	964.2	985.0	1006.6	1045.3	1105.1	1176.3	1270.6	1368.1	1462.8	1520.3	1526.5
40°	838.9	850.6	865.3	893.1	942.1	1011.8	1090.1	1206.0	1308.3	1400.6	1430.8
42.5°	739.9	745.6	753.1	777.6	812.0	881.3	951.0	1049.5	1152.3	1267.3	1322.9
45°	645.6	652.7	667.8	682.4	710.7	758.8	825.2	909.1	1012.3	1118.8	1212.1
47.5°	575.0	579.7	589.1	605.1	630.6	663.1	719.6	790.8	891.7	994.9	1094.8
50°	516.5	520.3	527.4	541.5	559.9	588.2	632.4	698.0	772.9	877.0	974.6
52.5°	470.3	471.3	476.0	484.5	498.1	520.8	555.2	606.5	674.9	764.9	862.0
55°	422.3	424.1	428.9	435.9	448.7	463.7	491.5	532.1	592.9	673.5	757.8
57.5°	382.7	384.6	388.3	391.2	402.5	415.2	437.8	467.0	514.6	586.3	663.1
60°	345.0	344.0	348.7	351.1	358.2	368.5	385.0	412.8	452.9	508.0	577.3
62.5°	308.2	306.8	310.6	313.9	317.2	325.7	338.4	358.6	389.3	437.8	495.3
65°	271.5	269.6	271.9	275.7	279.5	284.2	294.1	313.4	339.3	375.1	420.8
67.5°	233.8	236.1	236.1	238.5	240.8	247.4	254.5	269.6	287.9	317.2	357.7
70°	200.8	201.2	203.1	203.1	204.5	210.2	215.8	223.9	241.8	268.2	299.7
72.5°	167.8	170.1	168.7	170.6	171.5	174.8	178.6	186.2	200.8	218.7	244.1
75°	135.7	137.1	137.1	137.6	139.0	140.4	143.7	149.4	160.2	174.8	193.2
77.5°	104.6	104.6	105.6	107.5	107.5	109.8	112.6	116.9	123.0	133.8	145.6
80°	76.3	77.3	76.8	77.8	77.8	79.6	80.6	86.2	88.6	95.2	104.2
82.5°	50.9	51.8	51.8	53.3	54.2	54.2	55.6	57.0	59.4	65.0	67.4
85°	28.3	29.2	28.3	29.2	30.6	31.1	32.5	33.0	34.9	36.3	39.6
87.5°	10.4	11.8	11.8	12.3	13.2	13.7	14.1	13.7	15.6	16.0	17.9
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°	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1183.4	1176.8	1172.1	1168.3	1157.9	1151.8	1147.1	1140.5	1132.9	1124.9	1115.0
5°	1240.9	1224.8	1213.1	1195.2	1178.2	1164.0	1149.4	1136.2	1120.2	1102.8	1090.1
7.5°	1299.8	1277.6	1247.9	1224.8	1197.0	1173.0	1151.8	1129.6	1106.1	1083.5	1062.3
10°	1355.4	1324.8	1290.8	1250.8	1213.1	1179.6	1148.5	1118.3	1089.1	1059.9	1034.9
12.5°	1415.2	1375.2	1321.0	1272.4	1229.1	1181.5	1142.4	1103.7	1067.0	1035.9	1005.7
15°	1467.5	1412.4	1354.4	1291.8	1236.2	1183.8	1132.5	1085.8	1046.2	1005.7	977.4
17.5°	1500.5	1432.2	1370.0	1304.5	1240.4	1174.9	1121.6	1069.3	1020.3	980.7	945.4
20°	1533.1	1465.2	1382.7	1317.2	1237.1	1169.2	1105.1	1045.3	993.4	950.6	913.8
22.5°	1561.3	1480.3	1397.8	1306.4	1226.7	1153.7	1082.0	1021.7	968.5	922.8	887.9
25°	1567.9	1477.9	1388.4	1302.6	1212.1	1126.8	1063.2	992.5	936.0	888.4	850.6
27.5°	1570.3	1475.1	1375.6	1282.3	1189.0	1111.3	1028.3	966.6	908.1	857.7	821.9
30°	1565.1	1464.7	1355.9	1252.6	1158.9	1072.6	1002.9	934.1	874.2	824.3	786.6
32.5°	1548.6	1443.0	1330.4	1219.7	1121.6	1037.7	965.2	900.6	842.6	793.6	753.6
35°	1513.7	1410.5	1291.3	1177.7	1078.3	993.0	927.9	861.5	803.1	756.4	718.2
37.5°	1467.1	1370.9	1249.8	1131.5	1035.9	949.1	883.6	822.4	769.6	721.5	681.9
40°	1402.0	1320.0	1198.5	1083.9	978.4	896.8	836.5	781.4	729.1	684.3	647.1
42.5°	1327.1	1258.3	1148.5	1025.5	924.6	842.6	784.2	736.1	687.6	647.1	609.8
45°	1235.2	1188.1	1082.5	970.4	864.3	787.0	730.9	687.6	646.1	605.6	574.5
47.5°	1132.9	1106.6	1014.7	907.2	805.4	728.1	679.6	638.1	600.4	565.1	537.3
50°	1029.7	1018.4	941.6	838.9	742.7	671.1	622.1	587.7	556.6	526.4	500.5
52.5°	927.9	930.3	862.9	771.0	683.8	615.5	566.9	535.4	509.4	486.4	463.7
55°	823.8	837.0	782.8	698.9	619.3	557.0	513.2	484.5	465.6	445.4	427.9
57.5°	728.1	750.3	703.1	626.3	558.9	499.6	460.9	438.8	418.0	404.8	391.2
60°	634.8	655.5	620.7	558.5	495.8	446.8	410.5	391.2	373.7	365.2	356.3
62.5°	551.9	569.8	546.2	489.7	437.3	390.7	361.5	343.1	332.7	323.3	318.1
65°	473.6	489.2	467.0	425.1	378.4	340.7	315.8	301.1	289.8	286.1	279.5
67.5°	396.3	410.5	398.7	361.9	322.4	292.7	272.9	257.3	250.7	246.9	242.7
70°	328.9	343.1	330.4	299.3	270.5	246.5	228.1	220.1	213.0	211.6	205.0
72.5°	271.9	280.4	267.7	245.1	221.5	202.2	189.0	180.5	177.7	174.8	172.0
75°	212.5	221.0	212.5	193.7	176.3	162.1	149.9	146.6	142.3	140.9	138.6
77.5°	159.3	167.3	160.7	148.0	134.3	122.5	115.5	110.7	110.3	107.5	108.4
80°	115.0	119.7	113.6	105.6	95.2	87.7	82.9	80.6	77.8	76.8	78.7
82.5°	74.5	75.9	73.5	68.8	61.7	57.5	54.7	51.8	51.8	52.3	51.8
85°	42.9	42.4	41.9	37.2	34.9	31.6	29.7	29.2	28.7	29.7	30.6
87.5°	17.9	18.4	17.9	16.0	14.6	13.2	12.7	12.3	12.7	13.2	13.7
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°	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1110.3	1106.1	1100.0	1091.5	1084.4	1076.9	1075.0	1072.1	1077.8	1073.1	1071.7
5°	1079.2	1069.3	1056.6	1042.0	1033.5	1021.3	1018.9	1014.2	1009.5	1009.0	1004.3
7.5°	1046.7	1033.0	1017.0	1001.9	988.7	975.5	967.1	966.1	958.6	954.8	950.1
10°	1015.6	997.7	978.4	964.2	948.2	934.1	924.2	918.5	913.8	908.6	903.9
12.5°	978.8	959.5	944.4	928.9	909.1	899.2	881.3	870.4	870.4	871.9	857.7
15°	952.0	933.1	908.6	886.9	876.6	855.8	846.9	835.6	828.5	821.4	815.8
17.5°	919.0	895.9	877.0	852.5	833.2	817.7	805.4	799.3	788.0	777.6	770.5
20°	888.4	863.4	843.1	816.7	795.0	774.8	764.9	755.5	747.4	739.0	730.9
22.5°	857.2	830.9	804.9	779.5	759.7	738.0	728.6	714.9	707.4	703.6	695.6
25°	824.3	796.0	767.7	743.2	722.5	703.6	690.9	681.0	672.5	668.7	663.6
27.5°	788.4	760.6	733.8	705.5	681.5	667.8	657.4	649.4	644.2	638.6	636.2
30°	754.5	725.3	696.1	670.2	648.5	634.8	625.4	620.2	616.4	614.1	611.7
32.5°	720.1	691.4	660.3	637.2	618.3	606.5	599.9	594.7	593.3	592.9	592.4
35°	682.9	653.7	625.4	604.2	585.8	581.1	575.0	572.1	571.2	574.5	575.9
37.5°	647.1	619.7	593.3	572.1	559.9	552.3	550.0	549.5	552.8	555.6	558.9
40°	612.7	586.3	561.8	543.9	532.5	528.3	527.4	529.7	533.5	536.8	540.6
42.5°	579.2	553.3	531.6	515.1	508.0	504.3	505.2	507.6	513.2	517.5	523.6
45°	544.3	522.6	501.0	487.3	480.7	481.6	481.6	485.9	491.1	497.2	503.3
47.5°	511.8	489.7	471.3	459.5	456.2	454.8	457.1	462.8	469.9	476.9	485.4
50°	478.8	458.1	442.5	432.2	428.4	429.8	433.6	438.8	447.7	457.1	466.1
52.5°	445.4	427.0	412.8	403.4	401.1	403.9	407.7	416.6	424.1	434.5	445.8
55°	410.5	394.5	383.1	376.1	375.1	376.5	380.8	389.7	401.1	413.8	424.1
57.5°	376.1	362.4	351.6	346.4	346.9	347.8	354.4	365.2	376.5	390.2	403.4
60°	341.2	328.9	320.5	316.7	317.2	320.0	328.5	338.4	353.5	366.7	380.8
62.5°	308.2	297.8	289.8	286.5	285.6	292.7	300.7	311.0	326.1	341.2	356.8
65°	272.4	263.9	257.3	255.4	256.8	261.6	271.9	285.6	298.3	313.9	329.9
67.5°	237.5	230.5	225.7	226.7	228.1	234.7	243.6	255.4	269.6	285.6	302.1
70°	204.5	197.9	194.2	194.6	197.5	205.9	213.5	225.3	240.8	257.3	270.5
72.5°	170.6	166.8	163.5	165.9	168.7	173.9	183.8	195.6	208.8	223.9	238.0
75°	136.2	136.2	134.3	135.7	140.0	145.6	152.7	164.9	178.6	190.9	202.2
77.5°	107.0	105.6	106.5	107.9	110.7	117.8	125.8	134.8	145.6	158.3	167.8
80°	77.3	77.8	80.1	82.9	83.9	89.1	97.6	105.6	113.6	123.9	132.9
82.5°	53.3	53.7	54.7	58.4	59.4	65.0	69.7	77.8	84.8	91.0	98.0
85°	31.6	31.6	33.9	35.3	37.7	41.5	44.8	49.5	56.1	60.8	67.9
87.5°	15.1	15.1	17.0	17.9	19.3	21.7	22.6	27.8	29.7	32.0	36.3
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: P242635

CATALOG NUMBER: S124DRP-S795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1137.7	1137.7	1137.7	1137.7
2.5°	1070.7	1069.8	1066.5	1066.0
5°	1001.5	999.1	997.7	1002.9
7.5°	949.1	947.3	943.0	941.6
10°	899.2	897.3	893.5	892.6
12.5°	851.1	846.9	846.9	848.3
15°	809.6	807.8	802.6	804.0
17.5°	767.2	765.3	758.3	765.3
20°	727.6	723.9	720.6	720.1
22.5°	689.9	686.6	687.1	683.3
25°	659.8	656.5	655.5	653.2
27.5°	635.3	633.4	631.5	632.4
30°	613.1	612.7	611.7	611.7
32.5°	594.7	594.7	595.7	595.7
35°	577.8	579.2	580.1	578.7
37.5°	562.7	563.6	565.1	566.5
40°	544.8	548.1	549.0	551.4
42.5°	527.8	531.6	534.4	534.4
45°	510.4	514.2	517.5	517.5
47.5°	492.5	497.7	501.0	501.4
50°	474.1	480.7	484.0	486.4
52.5°	456.2	462.8	467.5	468.4
55°	435.0	444.4	449.6	451.5
57.5°	416.1	424.6	430.3	431.7
60°	393.5	402.9	410.5	411.9
62.5°	370.4	380.3	386.9	391.2
65°	343.1	353.0	359.6	361.0
67.5°	314.3	324.7	328.9	331.8
70°	283.7	291.7	296.4	298.8
72.5°	248.8	257.3	263.0	263.0
75°	213.0	220.6	223.4	223.4
77.5°	175.8	180.0	183.8	184.7
80°	140.0	142.3	145.2	145.2
82.5°	103.2	105.1	107.9	107.5
85°	66.9	71.2	70.7	69.7
87.5°	37.7	38.2	39.6	40.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242635  
 CATALOG NUMBER: S124DRP-S795D830-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	18.01	19.57	18.37	19.88	20.20	18.92	20.48	19.28	20.79	21.11
	3H	19.49	20.90	19.87	21.22	21.58	20.28	21.69	20.66	22.02	22.38
	4H	20.03	21.35	20.43	21.70	22.08	20.76	22.08	21.16	22.43	22.80
	6H	20.39	21.61	20.80	21.98	22.37	21.06	22.29	21.48	22.65	23.04
	8H	20.49	21.65	20.91	22.04	22.44	21.14	22.31	21.57	22.70	23.10
	12H	20.54	21.66	20.97	22.04	22.47	21.18	22.30	21.61	22.68	23.11
4H	2H	19.17	20.49	19.57	20.84	21.21	19.60	20.92	20.00	21.27	21.65
	3H	20.70	21.80	21.11	22.20	22.60	21.31	22.41	21.72	22.81	23.21
	4H	21.28	22.28	21.72	22.69	23.13	21.90	22.89	22.33	23.31	23.75
	6H	21.71	22.58	22.17	23.02	23.48	22.30	23.16	22.75	23.61	24.06
	8H	21.83	22.65	22.30	23.09	23.56	22.40	23.21	22.86	23.66	24.12
	12H	21.91	22.64	22.39	23.11	23.58	22.47	23.19	22.95	23.67	24.14
8H	4H	21.74	22.55	22.20	22.99	23.46	22.21	23.03	22.68	23.47	23.93
	6H	22.25	22.92	22.74	23.41	23.88	22.74	23.41	23.24	23.90	24.38
	8H	22.42	23.02	22.93	23.53	24.01	22.91	23.51	23.42	24.02	24.50
	12H	22.54	23.07	23.05	23.56	24.13	23.02	23.55	23.53	24.04	24.61
12H	4H	21.79	22.51	22.27	22.99	23.46	22.25	22.97	22.73	23.45	23.92
	6H	22.32	22.92	22.83	23.43	23.92	22.80	23.40	23.31	23.91	24.40
	8H	22.54	23.07	23.05	23.56	24.13	23.02	23.55	23.53	24.04	24.61