

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: P243505

Luminaire Tested: S124DRP-H795D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243505
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-H795D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

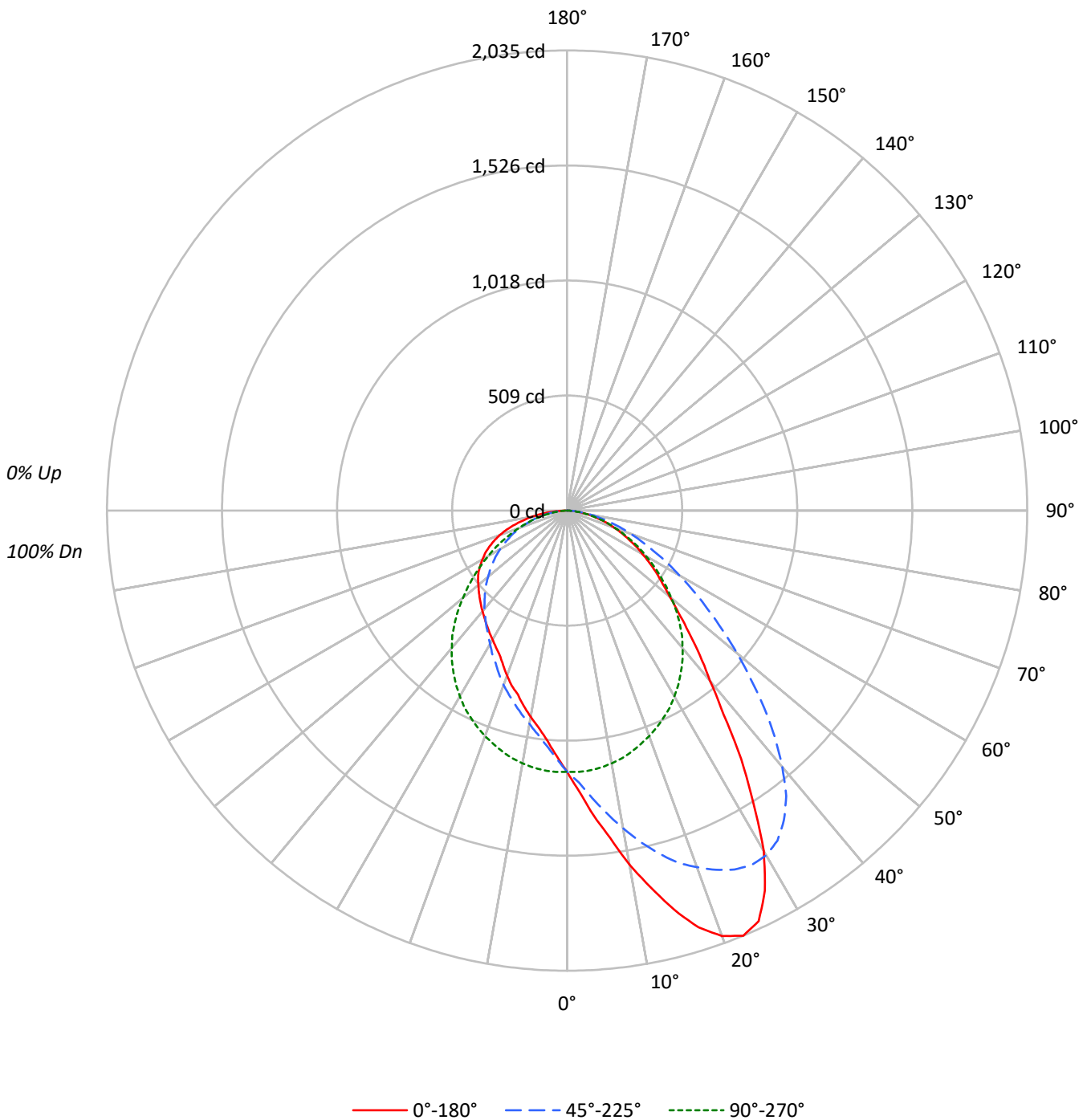
Lumens per Lamp: N/A
Luminaire Lumens: 3311.9 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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°	10267	10267	10267	10267	10267
5°	12082	11392	10293	9305	9086
10°	14358	12881	10246	8647	8366
15°	16816	14447	10157	8174	7748
20°	18936	15876	10038	7764	7349
25°	19651	17177	9904	7324	6917
30°	17846	18069	9735	6997	6765
35°	14559	18140	9505	6764	6722
40°	11401	17172	9206	6602	6751
45°	9541	15486	8836	6454	6875
50°	8188	13541	8319	6311	7080
55°	7482	11733	7760	6204	7423
60°	6855	10183	7182	6101	7694
65°	6287	8825	6575	5900	7993
70°	5783	7732	5931	5710	8233
75°	5148	6656	5213	5327	8225
80°	4295	5406	4269	4924	8206
85°	3274	4039	3223	4426	7690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 16185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.4
10°-20°	348.2	10.5
20°-30°	559.4	16.9
30°-40°	639.5	19.3
40°-50°	588.6	17.8
50°-60°	481.5	14.5
60°-70°	343.1	10.4
70°-80°	188.6	5.7
80°-90°	50.7	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°	1020.0	30.8
0°-40°	1659.5	50.1
0°-60°	2729.6	82.4
0°-90°	3311.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1155	1155	1155	1155	1155	
5°	1354	1277	1154	1043	1018	136
15°	1827	1570	1104	888	842	521
25°	2004	1751	1010	747	705	899
35°	1342	1672	876	623	620	834
45°	759	1232	703	513	547	592
55°	483	757	501	400	479	433
65°	299	420	313	280	380	299
75°	150	194	152	155	240	160
85°	32	40	32	43	75	38
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°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1243.7	1239.9	1238.0	1235.7	1235.2	1232.8	1228.1	1221.5	1213.0	1204.1	1204.1
5°	1354.0	1353.0	1346.0	1346.4	1337.5	1327.6	1320.0	1310.6	1292.2	1276.7	1265.8
7.5°	1459.6	1469.5	1467.1	1459.6	1446.4	1432.3	1417.2	1404.0	1370.0	1351.2	1335.6
10°	1590.7	1594.4	1587.8	1577.0	1565.2	1537.9	1518.1	1495.9	1459.1	1427.1	1398.8
12.5°	1705.7	1714.6	1702.9	1692.5	1664.7	1644.4	1624.6	1580.3	1541.6	1501.1	1460.1
15°	1827.3	1817.9	1824.0	1798.6	1778.8	1759.4	1709.0	1663.7	1619.9	1569.9	1527.0
17.5°	1932.9	1932.9	1921.6	1905.1	1884.4	1848.1	1797.6	1747.6	1699.1	1633.6	1572.7
20°	2001.8	2006.9	1993.7	1976.3	1951.3	1913.6	1873.5	1819.3	1754.7	1678.3	1609.5
22.5°	2034.8	2035.7	2031.0	2016.4	1996.1	1964.0	1923.0	1870.2	1801.9	1719.8	1647.7
25°	2003.6	2008.8	2007.4	2006.5	1996.1	1977.7	1944.7	1895.7	1833.5	1751.4	1673.6
27.5°	1894.3	1907.0	1917.8	1922.6	1933.9	1934.8	1924.9	1895.2	1844.3	1767.0	1680.2
30°	1738.7	1732.1	1761.3	1775.9	1814.6	1837.7	1854.2	1852.3	1823.1	1760.4	1677.9
32.5°	1531.3	1549.2	1569.9	1604.3	1650.1	1703.8	1744.3	1774.5	1771.7	1730.7	1661.8
35°	1341.7	1341.7	1368.1	1410.6	1459.1	1523.7	1591.6	1647.7	1682.1	1671.7	1623.2
37.5°	1136.2	1148.9	1179.1	1212.1	1271.5	1333.7	1423.3	1497.8	1569.9	1591.6	1566.6
40°	982.5	988.2	1020.2	1048.0	1108.8	1173.4	1248.4	1343.6	1426.6	1479.9	1483.2
42.5°	868.4	867.9	881.1	906.1	955.1	1012.7	1093.8	1187.1	1284.2	1359.6	1395.0
45°	759.0	758.1	771.8	797.2	832.1	883.0	953.3	1046.6	1146.1	1231.9	1287.5
47.5°	666.6	675.1	681.2	701.0	729.8	773.2	833.5	908.0	1003.7	1099.9	1174.8
50°	592.1	595.9	609.1	618.5	650.6	680.8	729.3	796.3	878.3	979.2	1060.3
52.5°	532.7	535.1	543.1	555.4	573.7	600.2	638.8	700.6	774.6	862.3	946.2
55°	482.8	481.3	486.5	494.5	510.6	532.7	561.0	608.2	672.8	757.1	834.5
57.5°	433.7	433.7	438.4	444.1	453.1	471.4	499.3	536.5	588.4	663.3	731.7
60°	385.6	388.9	390.8	396.5	404.0	417.7	438.4	467.7	511.5	572.8	640.7
62.5°	343.2	343.2	346.5	348.4	358.3	368.2	383.3	408.3	442.7	497.4	550.2
65°	298.9	301.7	301.7	305.5	314.0	321.5	333.3	352.2	380.5	419.6	469.1
67.5°	261.2	261.2	263.5	265.4	270.1	275.3	285.7	300.3	324.4	355.5	400.3
70°	222.5	223.9	223.0	225.4	228.2	233.4	240.9	253.2	270.6	297.5	330.5
72.5°	187.6	185.7	186.7	189.0	190.5	193.8	198.5	207.9	222.1	243.7	267.8
75°	149.9	149.0	152.3	151.3	153.7	156.5	160.8	167.8	178.7	193.8	212.2
77.5°	116.9	115.5	116.9	117.9	118.8	121.2	124.5	128.7	136.2	146.1	162.6
80°	83.9	83.4	84.4	85.3	85.8	89.6	90.5	94.8	98.1	105.6	113.6
82.5°	55.6	56.6	57.0	58.0	57.5	59.4	60.3	63.2	66.0	69.8	75.9
85°	32.1	30.6	32.1	32.1	32.1	34.4	33.9	35.8	37.7	39.6	43.8
87.5°	11.3	11.3	11.8	12.3	12.3	13.7	13.2	14.1	16.0	16.0	17.4
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°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1201.2	1196.1	1192.3	1181.4	1174.8	1168.7	1163.1	1156.9	1150.3	1141.8	1136.7
5°	1254.5	1243.2	1226.7	1211.6	1194.6	1179.6	1167.3	1153.6	1138.5	1123.0	1109.3
7.5°	1313.4	1292.2	1266.8	1239.0	1212.6	1190.4	1167.3	1145.6	1124.4	1103.7	1084.3
10°	1372.4	1335.6	1302.1	1263.9	1229.1	1195.6	1165.4	1135.2	1108.8	1081.5	1057.0
12.5°	1427.1	1382.8	1333.7	1286.1	1239.4	1196.1	1158.8	1122.0	1088.1	1055.6	1026.8
15°	1469.0	1413.4	1355.4	1298.8	1245.1	1199.8	1151.3	1103.7	1068.3	1028.7	997.1
17.5°	1517.1	1451.1	1393.6	1325.7	1258.8	1185.7	1134.3	1082.4	1040.0	1001.8	970.2
20°	1549.2	1476.6	1393.6	1316.7	1247.9	1182.4	1120.6	1061.2	1016.4	972.1	933.9
22.5°	1574.6	1499.7	1408.2	1328.1	1241.8	1162.6	1095.6	1037.2	984.4	942.4	906.1
25°	1587.8	1496.4	1409.2	1312.0	1225.8	1149.9	1074.4	1009.8	956.6	909.9	878.8
27.5°	1588.3	1494.5	1391.2	1295.1	1202.7	1120.6	1046.1	982.5	922.6	877.8	840.6
30°	1585.9	1482.2	1373.3	1268.2	1176.3	1092.3	1014.6	948.5	893.9	846.2	810.9
32.5°	1570.9	1465.3	1346.4	1236.1	1136.2	1051.8	980.1	914.6	856.1	812.8	775.5
35°	1536.9	1428.0	1308.7	1195.1	1100.4	1012.7	941.9	875.9	823.6	776.5	738.3
37.5°	1493.5	1391.7	1270.5	1151.7	1049.4	966.5	900.0	837.8	783.1	739.7	701.5
40°	1438.9	1343.1	1223.9	1100.4	998.1	914.1	851.4	793.4	746.8	702.5	665.2
42.5°	1363.9	1290.3	1167.8	1047.6	940.5	861.3	800.5	752.4	704.3	664.3	627.0
45°	1283.7	1216.8	1107.9	988.6	885.8	804.3	747.2	702.9	661.9	621.4	591.2
47.5°	1195.1	1140.4	1039.5	923.1	821.7	749.6	693.5	653.9	616.2	585.1	554.9
50°	1089.5	1060.8	966.5	860.9	762.3	688.3	642.1	601.6	573.7	543.6	515.3
52.5°	991.5	968.3	891.5	787.8	698.2	633.2	583.7	551.6	524.2	502.1	479.5
55°	884.9	873.1	808.1	718.5	637.4	572.3	529.9	500.7	479.0	458.2	441.7
57.5°	786.8	785.9	728.4	651.5	572.3	517.2	476.6	452.6	433.7	419.1	405.0
60°	686.4	694.4	647.3	577.0	514.3	462.5	425.7	404.0	391.3	377.6	365.8
62.5°	595.4	607.7	564.8	509.6	447.9	405.4	377.2	360.7	346.5	336.6	327.7
65°	508.2	523.8	488.9	439.4	392.2	352.2	328.1	312.6	301.7	296.1	289.9
67.5°	431.4	439.9	416.3	377.6	338.5	303.6	283.8	270.1	260.7	258.4	251.3
70°	354.5	364.4	347.9	312.6	282.4	256.9	239.0	228.2	222.5	219.2	214.5
72.5°	292.8	297.0	280.5	256.0	232.0	210.7	197.5	189.5	182.9	181.5	179.1
75°	229.1	235.3	222.1	203.2	183.4	168.3	158.4	151.8	148.5	146.1	146.1
77.5°	173.0	178.2	170.7	154.2	142.4	129.2	122.6	116.4	115.0	112.7	113.6
80°	123.0	125.4	121.2	109.8	99.5	92.4	86.7	83.4	83.0	81.1	83.0
82.5°	81.6	82.0	77.3	72.1	64.1	60.3	56.6	55.2	54.7	54.7	53.7
85°	45.3	46.2	42.9	39.6	36.8	33.5	32.5	31.6	30.6	32.1	33.0
87.5°	17.4	17.9	17.4	16.0	15.1	14.1	13.7	14.6	13.2	14.1	14.6
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°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1128.6	1124.9	1119.2	1109.8	1103.2	1096.1	1093.3	1094.2	1091.4	1087.6	1088.6
5°	1098.9	1088.1	1078.7	1065.5	1053.2	1042.8	1039.5	1035.3	1031.5	1029.2	1026.8
7.5°	1067.4	1052.3	1038.1	1024.9	1010.8	997.6	992.4	988.6	986.7	980.1	977.3
10°	1037.2	1019.7	1002.8	987.2	972.6	958.0	952.8	948.1	941.5	938.6	935.3
12.5°	1005.1	987.7	969.3	950.4	935.8	924.0	915.1	911.8	905.2	902.3	900.5
15°	974.0	952.8	938.2	923.6	901.4	888.2	884.4	872.6	868.9	863.2	859.4
17.5°	942.9	923.1	901.4	884.4	870.8	854.3	845.3	840.1	833.0	827.9	820.8
20°	912.2	889.1	872.2	851.0	835.9	820.8	809.5	804.8	798.6	791.6	781.7
22.5°	882.5	857.1	840.6	820.8	801.9	784.5	775.1	768.5	756.2	754.8	745.8
25°	847.7	825.0	803.3	782.6	764.2	746.8	740.6	730.3	726.0	717.5	716.1
27.5°	814.7	790.6	767.0	744.4	728.4	716.1	705.3	698.7	694.4	687.8	688.3
30°	780.2	753.8	731.7	710.9	693.5	681.7	674.6	671.3	665.2	664.3	661.0
32.5°	743.5	719.4	696.3	677.9	660.0	649.7	646.4	643.1	639.3	639.8	638.8
35°	706.7	685.5	661.0	644.0	629.4	623.3	618.1	617.1	615.7	616.7	616.7
37.5°	670.9	647.8	627.5	611.9	603.5	595.0	592.6	592.1	592.6	593.6	595.9
40°	636.0	614.8	595.0	582.2	572.8	569.0	565.7	567.1	569.0	572.3	575.2
42.5°	601.1	580.8	564.3	551.6	542.6	540.7	541.2	544.0	544.5	549.2	554.4
45°	564.3	546.9	531.3	521.4	515.8	513.4	514.3	517.2	520.5	527.1	533.7
47.5°	530.4	514.8	501.1	491.2	487.0	486.1	487.9	491.7	499.3	505.9	513.4
50°	496.0	481.8	469.1	460.1	459.7	456.4	460.6	465.3	474.3	483.2	494.5
52.5°	462.0	448.3	437.5	430.4	428.5	428.5	433.7	442.2	450.2	462.0	472.4
55°	426.7	414.4	404.0	401.7	398.8	400.3	405.9	414.4	425.7	438.9	450.2
57.5°	390.4	380.0	372.4	369.1	367.7	372.4	379.0	388.0	402.6	415.8	428.1
60°	355.9	347.0	339.0	338.0	337.1	343.2	351.2	360.7	375.3	388.5	403.6
62.5°	319.2	312.1	306.9	305.5	305.5	311.6	320.6	332.8	346.5	360.7	376.7
65°	281.9	275.8	274.4	272.5	276.7	280.5	289.5	301.3	315.9	331.4	348.4
67.5°	247.5	243.7	240.9	240.9	244.2	251.3	259.3	271.1	286.2	302.7	317.8
70°	213.1	209.3	207.0	209.3	211.2	219.7	228.2	239.5	253.6	269.7	285.7
72.5°	177.3	177.7	178.2	177.7	179.6	187.6	196.1	207.0	220.6	236.2	250.8
75°	145.7	143.3	143.8	144.7	150.9	155.1	163.6	174.0	188.6	202.7	215.0
77.5°	113.1	112.2	114.6	114.6	120.2	125.4	132.5	142.8	155.6	168.3	178.2
80°	83.0	83.4	85.3	85.8	90.5	96.2	103.7	110.8	122.1	131.1	140.5
82.5°	56.1	57.0	59.4	62.7	64.6	67.9	74.5	82.0	90.0	99.5	105.1
85°	32.5	33.9	35.8	38.2	40.1	43.4	48.1	54.2	59.9	65.1	69.8
87.5°	16.0	16.0	17.4	18.4	19.8	21.7	25.0	27.3	31.1	34.9	36.8
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: P243505

CATALOG NUMBER: S124DRP-H795D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1155.0	1155.0	1155.0	1155.0
2.5°	1086.7	1086.2	1084.3	1085.3
5°	1025.4	1020.7	1020.2	1018.3
7.5°	972.6	971.2	971.2	967.4
10°	932.0	927.8	928.7	926.9
12.5°	893.4	891.0	888.2	885.4
15°	850.0	850.0	850.0	842.0
17.5°	816.1	815.6	813.2	812.8
20°	780.7	778.8	772.7	776.9
22.5°	744.9	743.5	738.3	739.2
25°	711.4	710.0	709.1	705.3
27.5°	682.7	683.1	684.1	681.7
30°	661.0	659.6	661.4	659.1
32.5°	640.7	640.7	638.8	639.3
35°	617.6	619.5	620.0	619.5
37.5°	597.3	599.7	601.6	599.7
40°	578.5	580.3	582.2	581.8
42.5°	558.7	562.0	563.4	564.8
45°	539.8	544.0	546.4	546.9
47.5°	520.5	525.7	530.4	529.9
50°	501.6	508.2	512.5	512.0
52.5°	482.8	489.4	494.5	496.9
55°	461.5	470.0	474.7	479.0
57.5°	440.3	449.8	454.5	456.4
60°	416.8	425.2	431.4	432.8
62.5°	390.4	399.3	407.3	409.2
65°	363.0	372.9	379.0	380.0
67.5°	331.4	340.9	347.0	349.8
70°	298.9	306.0	312.6	316.8
72.5°	262.6	271.1	277.2	280.0
75°	224.9	234.3	237.6	239.5
77.5°	185.7	191.4	196.6	197.1
80°	146.6	153.7	155.6	160.3
82.5°	108.0	114.6	113.1	115.0
85°	71.2	73.5	75.0	75.4
87.5°	37.7	39.1	40.1	40.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243505
 CATALOG NUMBER: S124DRP-H795D840-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	18.66	20.23	19.02	20.55	20.86	18.95	20.52	19.31	20.83	21.15
	3H	20.10	21.52	20.48	21.84	22.21	20.33	21.75	20.71	22.08	22.44
	4H	20.62	21.95	21.02	22.30	22.68	20.82	22.15	21.22	22.50	22.87
	6H	20.97	22.20	21.38	22.56	22.95	21.13	22.36	21.54	22.73	23.12
	8H	21.06	22.24	21.49	22.63	23.03	21.22	22.39	21.64	22.78	23.18
	12H	21.11	22.24	21.54	22.62	23.05	21.26	22.39	21.69	22.77	23.20
4H	2H	19.80	21.13	20.19	21.47	21.85	19.74	21.07	20.14	21.42	21.79
	3H	21.30	22.41	21.71	22.81	23.21	21.44	22.55	21.85	22.95	23.35
	4H	21.87	22.87	22.30	23.29	23.73	22.04	23.04	22.47	23.45	23.89
	6H	22.29	23.16	22.74	23.60	24.06	22.44	23.31	22.89	23.75	24.21
	8H	22.40	23.22	22.86	23.66	24.13	22.54	23.36	23.01	23.80	24.27
	12H	22.48	23.21	22.96	23.69	24.16	22.61	23.34	23.09	23.82	24.29
8H	4H	22.30	23.12	22.76	23.56	24.03	22.38	23.19	22.84	23.64	24.10
	6H	22.80	23.47	23.29	23.96	24.44	22.91	23.59	23.40	24.07	24.55
	8H	22.96	23.57	23.47	24.08	24.56	23.07	23.68	23.58	24.19	24.67
	12H	23.08	23.61	23.58	24.11	24.67	23.19	23.72	23.69	24.22	24.78
12H	4H	22.34	23.07	22.82	23.55	24.02	22.41	23.14	22.89	23.62	24.09
	6H	22.86	23.47	23.37	23.98	24.47	22.97	23.58	23.48	24.09	24.57
	8H	23.08	23.61	23.58	24.11	24.67	23.19	23.73	23.70	24.22	24.78