

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P199540

Luminaire Tested: **S125-DIW-U2-1-35-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199540
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIW-U2-1-35-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-3500K, NO LENS
DOWNLIGHT LL1-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

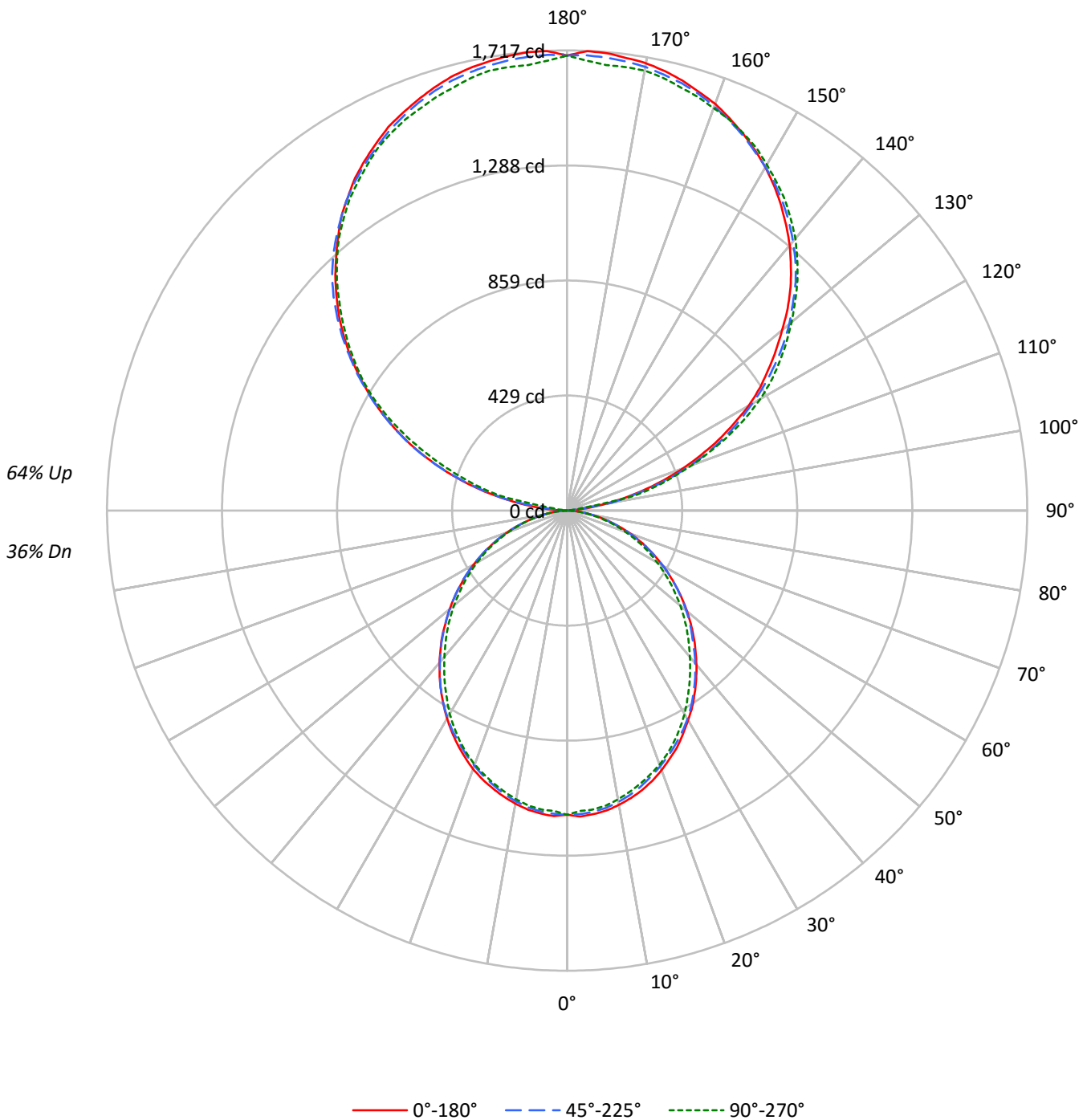
Lumens per Lamp: N/A
Luminaire Lumens: 7924.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

Input Watts (W): 65.5
Input Voltage (V): NR
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: 25 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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19
5	66	55	47	41	59	50	43	38	41	35	32	32	28	26	24	22	20	16
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	29	33	28	24	26	22	20	20	17	15	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7180	7180	7180
5°	7163	6591	7150
10°	7047	6065	7021
15°	6904	5567	6860
20°	6715	5114	6683
25°	6514	4662	6458
30°	6264	4214	6216
35°	6023	3765	5953
40°	5757	3353	5677
45°	5476	2977	5395
50°	5176	2616	5077
55°	4856	2263	4741
60°	4512	1917	4391
65°	4135	1583	3987
70°	3693	1228	3518
75°	3098	873	2884
80°	2345	543	2146
85°	1402	237	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.3
10°-20°	299.6	3.8
20°-30°	440.2	5.6
30°-40°	508.4	6.4
40°-50°	503.9	6.4
50°-60°	437.0	5.5
60°-70°	319.2	4.0
70°-80°	174.4	2.2
80°-90°	45.3	0.6
90°-100°	53.8	0.7
100°-110°	360.7	4.6
110°-120°	661.6	8.3
120°-130°	857.7	10.8
130°-140°	931.9	11.8
140°-150°	880.8	11.1
150°-160°	716.5	9.0
160°-170°	465.9	5.9
170°-180°	161.1	2.0
0°-30°	846.5	10.7
0°-40°	1354.8	17.1
0°-60°	2295.7	29.0
0°-90°	2834.8	35.8
90°-120°	1076.0	13.6
90°-150°	3746.5	47.3
90°-180°	5090.0	64.2
0°-180°	7924.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1135	1135	1135	1135	1135	
5°	1137	1128	1120	1127	1135	108
15°	1080	1065	1055	1061	1073	304
25°	973	960	948	956	965	447
35°	830	823	795	820	820	519
45°	668	659	632	656	658	515
55°	498	497	469	488	486	446
65°	331	328	310	320	319	328
75°	170	169	156	159	158	181
85°	40	42	37	37	35	45
90°	1	3	1	2	1	4
95°	36	11	12	17	83	53
105°	296	314	336	371	379	315
115°	623	649	668	701	698	614
125°	916	945	967	986	980	820
135°	1179	1206	1215	1240	1223	908
145°	1391	1403	1416	1427	1427	870
155°	1552	1547	1554	1566	1579	716
165°	1661	1651	1635	1661	1675	469
175°	1713	1696	1669	1699	1717	163
180°	1698	1698	1698	1698	1698	



TEST NUMBER: P199540

CATALOG NUMBER: S125-DIW-U2-1-35-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9
2.5°	1142.6	1130.8	1133.5	1131.4	1121.7	1130.1	1132.8	1128.7	1141.2
5°	1137.0	1125.2	1128.0	1125.2	1119.6	1123.8	1126.6	1122.4	1134.9
7.5°	1128.7	1116.2	1118.3	1115.5	1109.9	1113.4	1116.9	1112.7	1125.2
10°	1114.8	1103.0	1103.7	1100.2	1093.9	1098.1	1101.6	1098.1	1110.6
12.5°	1098.8	1086.3	1086.3	1080.7	1075.2	1078.7	1083.5	1080.7	1093.2
15°	1080.0	1066.9	1064.8	1061.3	1055.0	1059.2	1061.3	1060.6	1073.1
17.5°	1057.1	1043.2	1040.5	1039.8	1032.1	1037.7	1038.4	1036.3	1051.6
20°	1030.7	1017.5	1015.5	1014.8	1008.5	1012.7	1012.7	1009.9	1025.9
22.5°	1001.6	989.1	988.4	987.0	980.0	984.9	984.9	980.7	996.7
25°	973.1	957.8	959.9	956.4	948.1	955.0	955.7	948.8	964.8
27.5°	937.7	925.9	930.0	923.8	912.7	921.7	925.9	915.4	932.1
30°	902.9	890.4	897.4	886.3	876.5	884.9	892.5	879.3	896.0
32.5°	868.9	854.3	862.7	848.8	834.9	845.3	857.8	845.3	858.5
35°	830.0	818.2	823.1	808.5	794.6	805.0	820.3	808.5	820.3
37.5°	791.1	781.4	784.9	767.5	753.6	764.0	780.0	771.0	781.4
40°	750.8	743.9	743.9	726.5	712.6	722.3	739.0	734.2	740.4
42.5°	709.2	706.4	700.8	685.5	672.3	682.1	698.0	696.6	699.4
45°	668.2	668.2	659.1	643.2	632.1	641.1	655.7	659.1	658.4
47.5°	625.8	629.3	621.6	604.3	591.8	600.8	614.0	620.2	613.3
50°	583.4	589.7	580.0	564.7	550.8	560.5	571.6	580.0	572.3
52.5°	541.1	548.7	538.3	523.7	509.8	518.8	530.0	539.7	530.0
55°	498.0	507.0	497.3	482.0	468.8	477.2	488.3	498.0	486.2
57.5°	455.6	464.0	455.6	440.4	427.9	435.5	447.3	454.9	444.5
60°	413.3	422.3	414.0	399.4	387.6	393.8	404.9	412.6	402.2
62.5°	371.6	379.2	370.2	358.4	349.4	352.1	362.6	371.6	360.5
65°	330.6	337.6	327.8	317.4	309.8	311.2	320.2	325.1	318.8
67.5°	290.3	298.0	287.6	277.8	268.8	271.6	279.2	286.2	278.5
70°	250.0	257.7	246.6	238.2	230.6	232.0	238.2	245.9	238.2
72.5°	210.5	216.7	209.1	199.3	193.8	195.2	198.6	205.6	198.0
75°	170.2	177.1	168.8	161.1	155.6	157.0	159.1	164.6	158.4
77.5°	132.7	137.5	132.0	125.7	122.2	122.9	123.6	127.8	122.2
80°	97.9	102.1	98.6	93.8	91.0	91.0	91.0	94.5	89.6
82.5°	66.7	70.8	68.1	64.6	62.5	60.4	61.8	64.6	60.4
85°	39.6	43.1	41.7	38.2	36.8	35.4	36.8	38.2	34.7
87.5°	18.1	20.8	18.8	15.3	13.9	12.5	12.5	14.6	11.8
90°	1.4	3.5	2.8	2.1	1.4	1.4	2.1	2.8	1.4
92.5°	5.0	7.0	7.0	8.0	8.0	9.0	10.0	12.0	34.0
95°	36.0	40.0	11.0	12.0	12.0	13.0	17.0	97.0	83.0
97.5°	83.0	106.0	35.0	21.0	19.0	28.0	108.0	154.0	146.0
100°	148.0	165.0	167.0	109.0	74.0	153.0	213.0	230.0	219.0
102.5°	219.0	238.0	233.0	253.0	260.0	282.0	287.0	309.0	300.0
105°	296.0	317.0	314.0	334.0	336.0	361.0	371.0	384.0	379.0
107.5°	377.0	392.0	400.0	413.0	412.0	439.0	459.0	465.0	460.0
110°	460.0	470.0	485.0	494.0	494.0	521.0	544.0	545.0	540.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	539.0	556.0	570.0	581.0	579.0	608.0	624.0	627.0	621.0
115°	623.0	630.0	649.0	665.0	668.0	690.0	701.0	704.0	698.0
117.5°	700.0	711.0	723.0	742.0	752.0	766.0	774.0	779.0	773.0
120°	782.0	789.0	796.0	814.0	832.0	840.0	846.0	850.0	845.0
122.5°	853.0	858.0	873.0	885.0	903.0	909.0	918.0	917.0	913.0
125°	916.0	923.0	945.0	952.0	967.0	975.0	986.0	980.0	980.0
127.5°	982.0	988.0	1016.0	1017.0	1031.0	1040.0	1054.0	1044.0	1045.0
130°	1047.0	1057.0	1082.0	1082.0	1093.0	1103.0	1119.0	1104.0	1108.0
132.5°	1116.0	1119.0	1142.0	1143.0	1153.0	1163.0	1182.0	1162.0	1166.0
135°	1179.0	1176.0	1206.0	1201.0	1215.0	1221.0	1240.0	1216.0	1223.0
137.5°	1236.0	1229.0	1261.0	1256.0	1271.0	1272.0	1292.0	1269.0	1277.0
140°	1292.0	1284.0	1311.0	1308.0	1325.0	1323.0	1338.0	1319.0	1330.0
142.5°	1342.0	1333.0	1359.0	1358.0	1371.0	1371.0	1384.0	1368.0	1384.0
145°	1391.0	1379.0	1403.0	1402.0	1416.0	1415.0	1427.0	1412.0	1427.0
147.5°	1437.0	1425.0	1444.0	1442.0	1454.0	1455.0	1465.0	1456.0	1472.0
150°	1479.0	1468.0	1480.0	1479.0	1490.0	1491.0	1501.0	1497.0	1509.0
152.5°	1517.0	1507.0	1513.0	1511.0	1527.0	1521.0	1533.0	1531.0	1544.0
155°	1552.0	1542.0	1547.0	1543.0	1554.0	1553.0	1566.0	1564.0	1579.0
157.5°	1584.0	1573.0	1577.0	1571.0	1579.0	1579.0	1594.0	1594.0	1605.0
160°	1615.0	1600.0	1605.0	1595.0	1598.0	1602.0	1620.0	1620.0	1630.0
162.5°	1637.0	1627.0	1630.0	1616.0	1619.0	1621.0	1642.0	1642.0	1654.0
165°	1661.0	1648.0	1651.0	1634.0	1635.0	1640.0	1661.0	1662.0	1675.0
167.5°	1680.0	1667.0	1666.0	1649.0	1654.0	1655.0	1675.0	1676.0	1690.0
170°	1695.0	1681.0	1681.0	1663.0	1667.0	1665.0	1686.0	1689.0	1701.0
172.5°	1703.0	1693.0	1690.0	1670.0	1669.0	1672.0	1694.0	1698.0	1710.0
175°	1713.0	1701.0	1696.0	1677.0	1669.0	1679.0	1699.0	1703.0	1717.0
177.5°	1716.0	1704.0	1700.0	1680.0	1680.0	1682.0	1702.0	1705.0	1716.0
180°	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0

(END OF REPORT)