

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: P199539

Luminaire Tested: **S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199539
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL2-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.5 lumens
Efficiency: N/A
Efficacy: 109.1 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

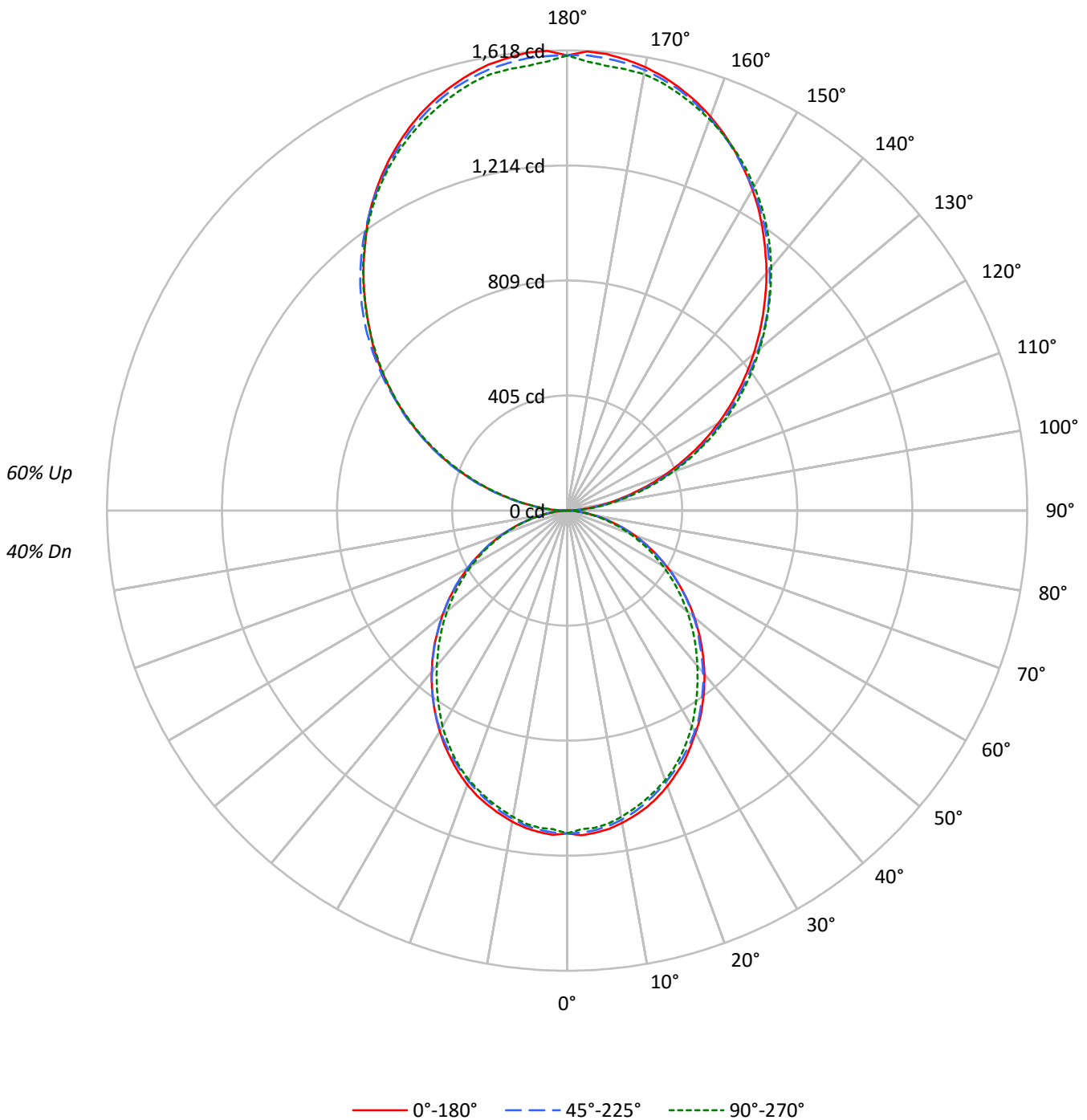
Input Watts (W): 65.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P199539

CATALOG NUMBER: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W

Luminous Intensity Polar Plot





TEST NUMBER: P199539

CATALOG NUMBER: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18
6	61	49	42	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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



TEST NUMBER: P199539

CATALOG NUMBER: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.5
10°-20°	299.6	4.2
20°-30°	440.2	6.2
30°-40°	508.4	7.1
40°-50°	503.9	7.1
50°-60°	437.0	6.1
60°-70°	319.2	4.5
70°-80°	174.4	2.4
80°-90°	45.3	0.6
90°-100°	79.3	1.1
100°-110°	286.5	4.0
110°-120°	509.8	7.1
120°-130°	679.9	9.5
130°-140°	769.1	10.8
140°-150°	759.8	10.6
150°-160°	643.4	9.0
160°-170°	430.8	6.0
170°-180°	151.2	2.1
0°-30°	846.5	11.8
0°-40°	1354.8	19.0
0°-60°	2295.7	32.1
0°-90°	2834.8	39.7
90°-120°	875.6	12.3
90°-150°	3084.3	43.2
90°-180°	4310.0	60.3
0°-180°	7144.5	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	5
95°	55	65	72	76	70	62
105°	243	262	272	282	277	260
115°	489	509	517	528	525	484
125°	735	753	766	777	768	657
135°	974	998	1001	1021	999	752
145°	1200	1213	1222	1229	1226	751
155°	1395	1393	1397	1406	1415	642
165°	1537	1530	1518	1537	1549	433
175°	1611	1596	1570	1597	1616	153
180°	1600	1600	1600	1600	1600	



TEST NUMBER: P199539

CATALOG NUMBER: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-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°	19.0	26.0	26.0	23.0	28.0	32.0	39.0	39.0	34.0
95°	55.0	62.0	65.0	67.0	72.0	74.0	76.0	76.0	70.0
97.5°	94.0	104.0	106.0	109.0	115.0	116.0	119.0	120.0	113.0
100°	138.0	150.0	152.0	156.0	163.0	164.0	168.0	170.0	163.0
102.5°	188.0	202.0	205.0	208.0	213.0	217.0	222.0	225.0	217.0
105°	243.0	260.0	262.0	266.0	272.0	276.0	282.0	284.0	277.0
107.5°	304.0	317.0	323.0	325.0	331.0	335.0	343.0	344.0	338.0
110°	364.0	376.0	384.0	386.0	392.0	396.0	404.0	404.0	399.0



TEST NUMBER: P199539

CATALOG NUMBER: S125-DIP-U2-1-35-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	426.0	439.0	446.0	448.0	455.0	458.0	466.0	467.0	462.0
115°	489.0	501.0	509.0	511.0	517.0	521.0	528.0	530.0	525.0
117.5°	552.0	564.0	570.0	574.0	581.0	584.0	588.0	591.0	586.0
120°	613.0	625.0	630.0	636.0	643.0	646.0	652.0	650.0	647.0
122.5°	675.0	686.0	691.0	698.0	706.0	707.0	711.0	710.0	708.0
125°	735.0	744.0	753.0	757.0	766.0	766.0	777.0	768.0	768.0
127.5°	796.0	803.0	815.0	817.0	825.0	826.0	839.0	826.0	829.0
130°	856.0	861.0	877.0	877.0	883.0	885.0	902.0	884.0	888.0
132.5°	915.0	919.0	938.0	936.0	942.0	944.0	963.0	942.0	941.0
135°	974.0	976.0	998.0	995.0	1001.0	1004.0	1021.0	998.0	999.0
137.5°	1032.0	1031.0	1054.0	1053.0	1059.0	1061.0	1077.0	1050.0	1057.0
140°	1091.0	1084.0	1108.0	1110.0	1116.0	1118.0	1129.0	1108.0	1114.0
142.5°	1145.0	1142.0	1160.0	1163.0	1171.0	1171.0	1181.0	1160.0	1168.0
145°	1200.0	1193.0	1213.0	1213.0	1222.0	1221.0	1229.0	1215.0	1226.0
147.5°	1254.0	1245.0	1262.0	1263.0	1271.0	1271.0	1278.0	1264.0	1278.0
150°	1303.0	1295.0	1307.0	1308.0	1316.0	1315.0	1322.0	1315.0	1327.0
152.5°	1350.0	1342.0	1350.0	1349.0	1359.0	1356.0	1365.0	1359.0	1373.0
155°	1395.0	1386.0	1393.0	1389.0	1397.0	1396.0	1406.0	1404.0	1415.0
157.5°	1436.0	1426.0	1432.0	1427.0	1432.0	1433.0	1444.0	1443.0	1455.0
160°	1474.0	1464.0	1468.0	1459.0	1464.0	1465.0	1479.0	1479.0	1491.0
162.5°	1508.0	1497.0	1501.0	1487.0	1492.0	1492.0	1510.0	1510.0	1522.0
165°	1537.0	1527.0	1530.0	1513.0	1518.0	1519.0	1537.0	1538.0	1549.0
167.5°	1563.0	1552.0	1553.0	1537.0	1541.0	1542.0	1558.0	1560.0	1573.0
170°	1583.0	1573.0	1573.0	1555.0	1558.0	1559.0	1576.0	1579.0	1592.0
172.5°	1599.0	1588.0	1586.0	1567.0	1565.0	1570.0	1587.0	1593.0	1605.0
175°	1611.0	1599.0	1596.0	1577.0	1570.0	1580.0	1597.0	1602.0	1616.0
177.5°	1616.0	1604.0	1602.0	1582.0	1581.0	1584.0	1600.0	1606.0	1618.0
180°	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0

(END OF REPORT)