

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: P231708

Luminaire Tested: **S125-DR-2-30-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29677)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DR-2-30-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

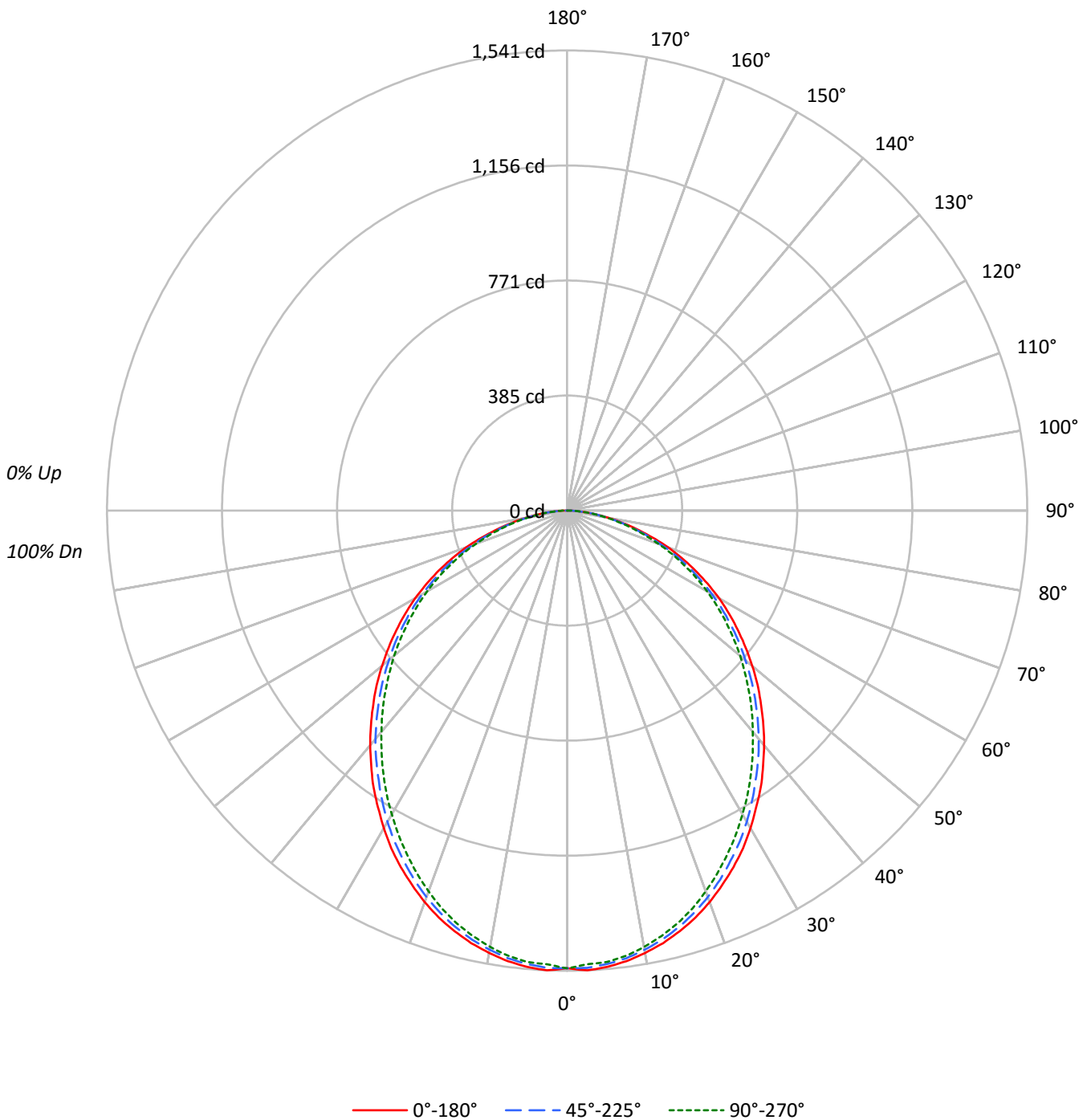
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231708

CATALOG NUMBER: S125-DR-2-30-X-0048-1-U-DD-1-W

Luminous Intensity Polar Plot





TEST NUMBER: P231708

CATALOG NUMBER: S125-DR-2-30-X-0048-1-U-DD-1-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10801	10801	10801
5°	10852	10784	10736
10°	10763	10685	10617
15°	10636	10537	10437
20°	10463	10330	10177
25°	10244	10064	9874
30°	9989	9789	9557
35°	9728	9470	9236
40°	9438	9187	8899
45°	9151	8866	8595
50°	8872	8544	8290
55°	8570	8236	7968
60°	8276	7892	7623
65°	7883	7497	7201
70°	7382	6906	6682
75°	6602	6270	6047
80°	5693	5474	5365
85°	4738	4625	4625



TEST NUMBER: P231708

CATALOG NUMBER: S125-DR-2-30-X-0048-1-U-DD-1-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.7
10°-20°	405.7	10.5
20°-30°	594.0	15.3
30°-40°	687.1	17.7
40°-50°	685.1	17.7
50°-60°	599.8	15.5
60°-70°	445.5	11.5
70°-80°	246.1	6.4
80°-90°	66.7	1.7
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°	1144.0	29.5
0°-40°	1831.1	47.3
0°-60°	3116.1	80.4
0°-90°	3874.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1534	1518	1525	1519	1518	145
15°	1458	1440	1444	1435	1431	411
25°	1318	1297	1294	1274	1270	607
35°	1131	1113	1101	1078	1074	706
45°	918	906	890	865	862	709
55°	698	688	670	651	649	624
65°	473	462	450	437	432	468
75°	242	237	230	225	222	258
85°	59	57	57	56	57	69
90°	0	0	0	0	0	



TEST NUMBER: P231708

CATALOG NUMBER: S125-DR-2-30-X-0048-1-U-DD-1-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1541.0	1524.6	1532.8	1528.7	1520.6
5°	1534.2	1517.8	1524.6	1519.2	1517.8
7.5°	1521.9	1505.6	1512.4	1505.6	1504.2
10°	1504.2	1487.9	1493.3	1486.5	1483.8
12.5°	1483.8	1466.1	1471.5	1462.0	1459.2
15°	1457.9	1440.2	1444.3	1434.7	1430.6
17.5°	1429.3	1410.2	1412.9	1400.7	1396.6
20°	1395.2	1377.5	1377.5	1359.8	1357.1
22.5°	1357.1	1339.3	1338.0	1317.5	1314.8
25°	1317.5	1297.1	1294.4	1273.9	1269.9
27.5°	1275.3	1256.2	1250.8	1227.6	1223.5
30°	1227.6	1208.5	1203.1	1178.6	1174.5
32.5°	1178.6	1163.6	1152.7	1129.5	1125.4
35°	1130.9	1113.2	1100.9	1077.7	1073.7
37.5°	1077.7	1061.4	1050.5	1024.6	1020.5
40°	1026.0	1011.0	998.7	972.8	967.4
42.5°	972.8	959.2	944.2	918.3	915.6
45°	918.3	906.1	889.7	865.2	862.5
47.5°	865.2	851.6	835.2	812.1	808.0
50°	809.3	797.1	779.4	758.9	756.2
52.5°	753.5	742.6	726.2	704.4	701.7
55°	697.6	688.1	670.4	651.3	648.6
57.5°	643.1	632.2	615.9	598.1	595.4
60°	587.2	576.3	560.0	545.0	540.9
62.5°	530.0	519.1	504.1	490.5	487.8
65°	472.8	461.9	449.6	437.4	431.9
67.5°	415.6	406.0	393.8	382.9	380.1
70°	358.3	348.8	335.2	327.0	324.3
72.5°	298.4	290.2	283.4	275.2	272.5
75°	242.5	237.1	230.3	224.8	222.1
77.5°	189.4	185.3	182.6	177.1	177.1
80°	140.3	137.6	134.9	132.2	132.2
82.5°	95.4	94.0	94.0	91.3	92.7
85°	58.6	57.2	57.2	55.9	57.2
87.5°	28.6	27.3	27.3	25.9	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)