

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: P231768

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33920)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-RDR-2-30-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR REGRESSED 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: 3756.8 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.11 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

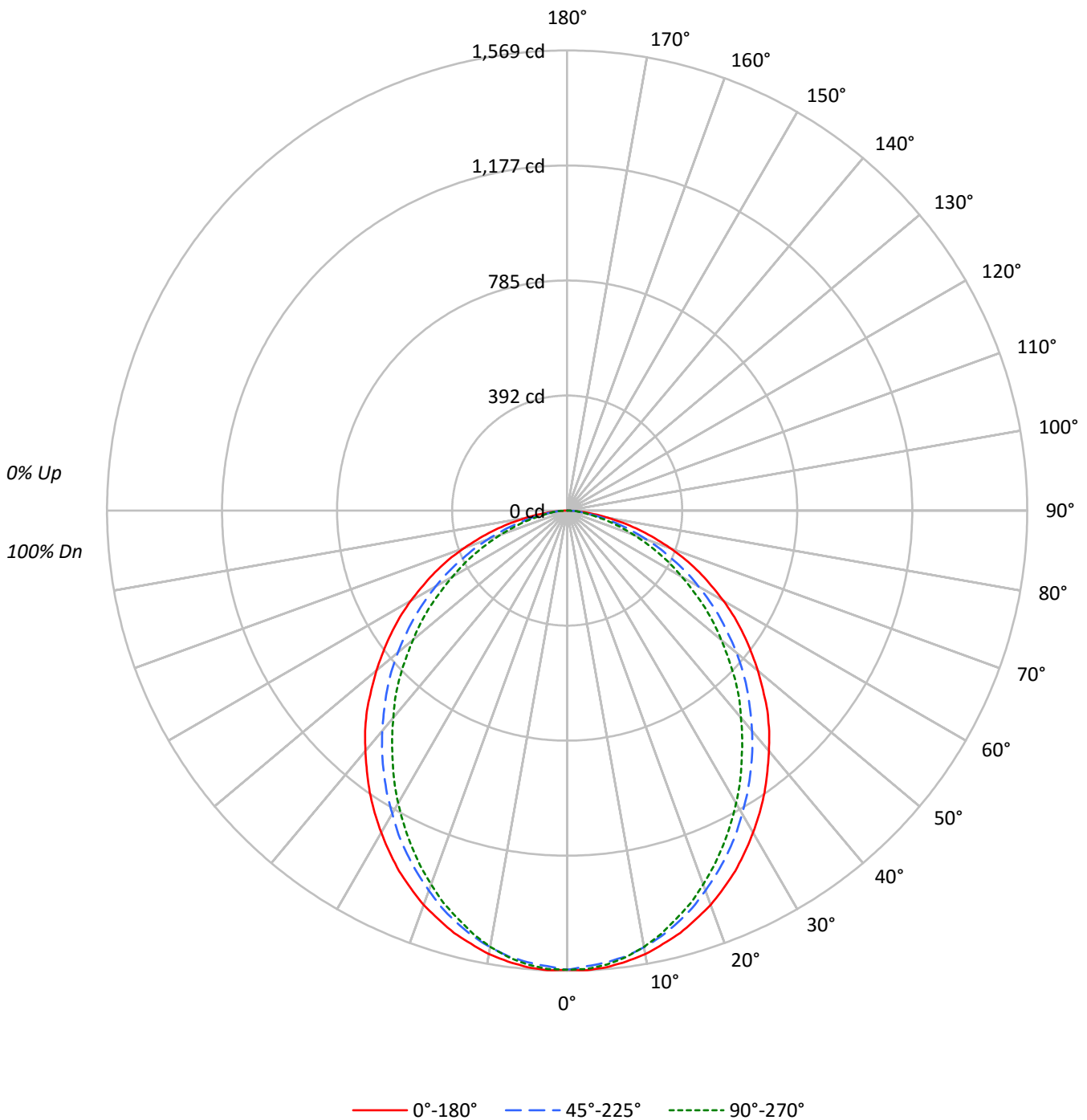
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11032	11032	11032
5°	11053	10937	10990
10°	10989	10817	10806
15°	10876	10613	10504
20°	10730	10337	10169
25°	10544	10043	9787
30°	10315	9706	9378
35°	10095	9373	8922
40°	9845	9019	8481
45°	9621	8666	8054
50°	9304	8270	7515
55°	9010	7815	7006
60°	8670	7299	6370
65°	8285	6663	5741
70°	7679	5921	4965
75°	6926	4972	4157
80°	5771	3827	3218
85°	4115	3145	3024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.9
10°-20°	411.9	11.0
20°-30°	599.0	15.9
30°-40°	686.9	18.3
40°-50°	676.0	18.0
50°-60°	574.5	15.3
60°-70°	406.1	10.8
70°-80°	205.9	5.5
80°-90°	49.1	1.3
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°	1158.2	30.8
0°-40°	1845.2	49.1
0°-60°	3095.6	82.4
0°-90°	3756.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1563	1558	1546	1555	1554	148
15°	1491	1482	1455	1449	1440	420
25°	1356	1334	1292	1272	1259	624
35°	1174	1144	1090	1057	1037	733
45°	965	928	870	822	808	743
55°	733	693	636	588	570	656
65°	497	456	400	361	344	490
75°	254	224	183	159	153	269
85°	51	43	39	37	37	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.6	1565.6	1565.6	1565.6	1565.6
2.5°	1568.6	1565.6	1555.1	1565.6	1564.1
5°	1562.6	1558.1	1546.1	1555.1	1553.6
7.5°	1550.6	1546.1	1532.7	1538.7	1535.7
10°	1535.7	1529.7	1511.7	1514.7	1510.2
12.5°	1513.2	1507.2	1486.3	1484.8	1478.8
15°	1490.8	1481.8	1454.8	1448.9	1439.9
17.5°	1460.8	1450.4	1420.4	1411.4	1402.5
20°	1430.9	1415.9	1378.5	1369.5	1356.1
22.5°	1393.5	1375.5	1336.6	1323.1	1309.7
25°	1356.1	1333.6	1291.7	1272.2	1258.8
27.5°	1312.6	1291.7	1245.3	1219.9	1206.4
30°	1267.7	1242.3	1192.9	1167.5	1152.5
32.5°	1221.3	1192.9	1143.5	1110.6	1097.1
35°	1173.5	1143.5	1089.6	1056.7	1037.2
37.5°	1121.1	1089.6	1037.2	999.8	980.4
40°	1070.2	1037.2	980.4	941.5	922.0
42.5°	1019.3	984.9	923.5	883.1	868.1
45°	965.4	928.0	869.6	821.7	808.2
47.5°	905.5	871.1	812.7	766.3	745.4
50°	848.7	812.7	754.4	708.0	685.5
52.5°	790.3	755.9	693.0	648.1	630.1
55°	733.4	693.0	636.1	588.2	570.3
57.5°	676.5	634.6	576.2	531.3	508.9
60°	615.2	574.8	517.9	473.0	452.0
62.5°	553.8	516.4	461.0	417.6	399.6
65°	496.9	456.5	399.6	360.7	344.3
67.5°	437.1	401.1	344.3	306.8	291.9
70°	372.7	341.3	287.4	253.0	241.0
72.5°	312.8	281.4	235.0	205.1	194.6
75°	254.4	224.5	182.6	158.7	152.7
77.5°	196.1	172.1	136.2	116.7	112.3
80°	142.2	125.7	94.3	83.8	79.3
82.5°	92.8	79.3	62.9	59.9	58.4
85°	50.9	43.4	38.9	37.4	37.4
87.5°	18.0	19.5	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)