

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: P231762

Luminaire Tested: **S125-RDR-LO-40-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231762
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-LO-40-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR REGRESSED DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1384.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

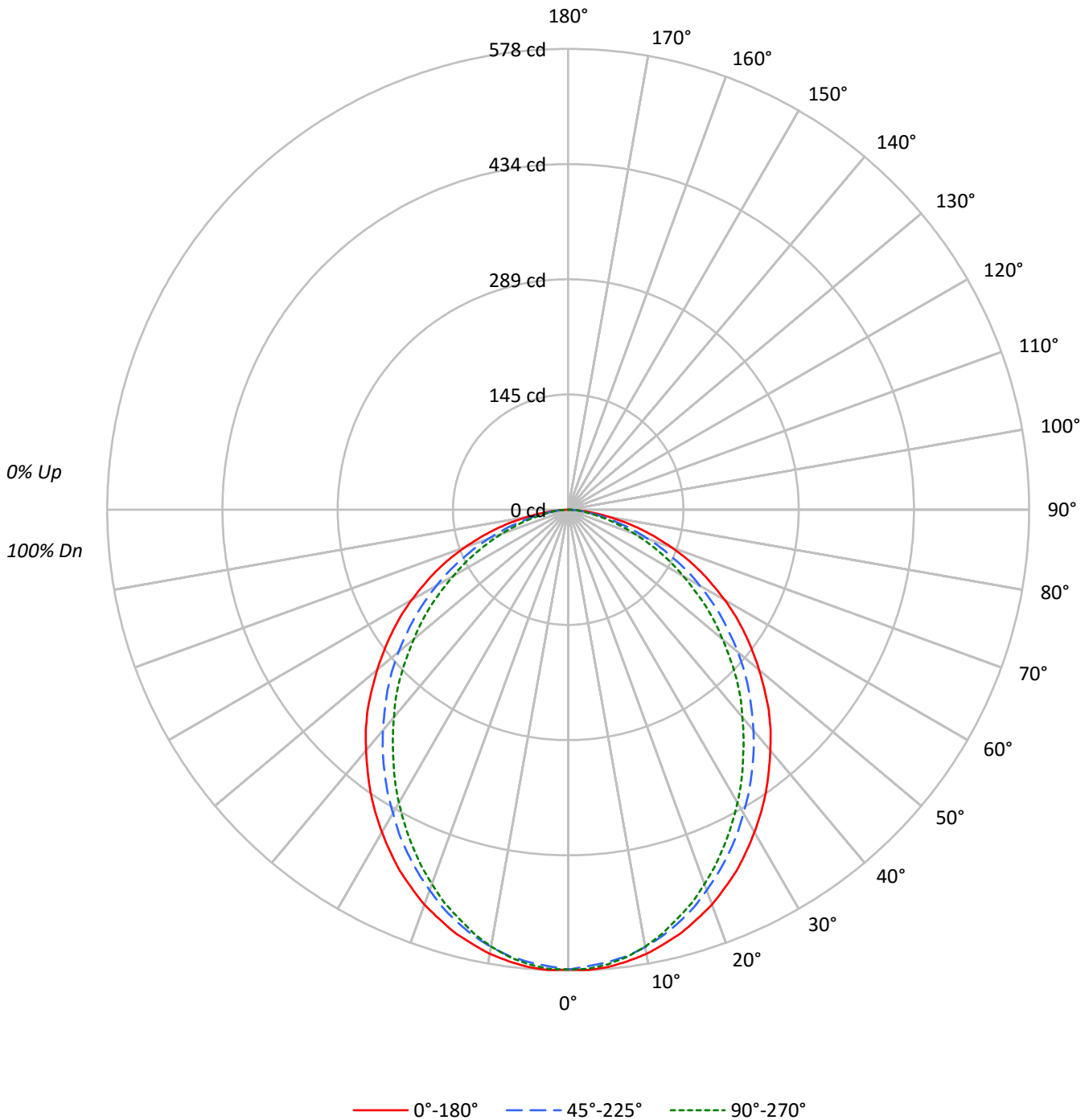
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4065	4065	4065
5°	4072	4029	4048
10°	4048	3985	3981
15°	4007	3910	3869
20°	3953	3808	3746
25°	3884	3700	3605
30°	3800	3576	3455
35°	3719	3453	3287
40°	3626	3323	3125
45°	3544	3193	2968
50°	3427	3047	2768
55°	3320	2879	2581
60°	3194	2689	2347
65°	3053	2454	2114
70°	2829	2182	1830
75°	2551	1832	1530
80°	2126	1408	1185
85°	1512	1156	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.9
10°-20°	151.8	11.0
20°-30°	220.7	15.9
30°-40°	253.1	18.3
40°-50°	249.0	18.0
50°-60°	211.6	15.3
60°-70°	149.6	10.8
70°-80°	75.8	5.5
80°-90°	18.1	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°	426.7	30.8
0°-40°	679.8	49.1
0°-60°	1140.4	82.4
0°-90°	1384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	576	574	570	573	572	55
15°	549	546	536	534	530	155
25°	500	491	476	469	464	230
35°	432	421	401	389	382	270
45°	356	342	320	303	298	274
55°	270	255	234	217	210	242
65°	183	168	147	133	127	181
75°	94	83	67	58	56	99
85°	19	16	14	14	14	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.8	576.8	576.8	576.8	576.8
2.5°	577.9	576.8	572.9	576.8	576.2
5°	575.7	574.0	569.6	572.9	572.3
7.5°	571.2	569.6	564.6	566.8	565.7
10°	565.7	563.5	556.9	558.0	556.4
12.5°	557.5	555.3	547.5	547.0	544.8
15°	549.2	545.9	536.0	533.7	530.4
17.5°	538.2	534.3	523.3	520.0	516.7
20°	527.1	521.6	507.8	504.5	499.6
22.5°	513.3	506.7	492.4	487.4	482.5
25°	499.6	491.3	475.9	468.7	463.7
27.5°	483.6	475.9	458.8	449.4	444.4
30°	467.0	457.7	439.5	430.1	424.6
32.5°	449.9	439.5	421.3	409.1	404.2
35°	432.3	421.3	401.4	389.3	382.1
37.5°	413.0	401.4	382.1	368.3	361.2
40°	394.2	382.1	361.2	346.8	339.7
42.5°	375.5	362.8	340.2	325.3	319.8
45°	355.6	341.9	320.4	302.7	297.8
47.5°	333.6	320.9	299.4	282.3	274.6
50°	312.6	299.4	277.9	260.8	252.5
52.5°	291.1	278.5	255.3	238.8	232.1
55°	270.2	255.3	234.3	216.7	210.1
57.5°	249.2	233.8	212.3	195.7	187.5
60°	226.6	211.7	190.8	174.2	166.5
62.5°	204.0	190.2	169.8	153.8	147.2
65°	183.1	168.2	147.2	132.9	126.8
67.5°	161.0	147.8	126.8	113.0	107.5
70°	137.3	125.7	105.9	93.2	88.8
72.5°	115.2	103.7	86.6	75.5	71.7
75°	93.7	82.7	67.3	58.4	56.2
77.5°	72.2	63.4	50.2	43.0	41.4
80°	52.4	46.3	34.7	30.9	29.2
82.5°	34.2	29.2	23.2	22.1	21.5
85°	18.7	16.0	14.3	13.8	13.8
87.5°	6.6	7.2	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)