

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: P231725

Luminaire Tested: **S122-RDR-LO-35-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33911)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122-RDR-LO-35-X-0048-1-U-DD-1-W
Description: DEFINE 2 LED LINEAR REGRESSED DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1122.4 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.12
Luminous Opening: Rectangular (W 0.14' x L: 3.92' x H: 0')
CIE Type: Direct

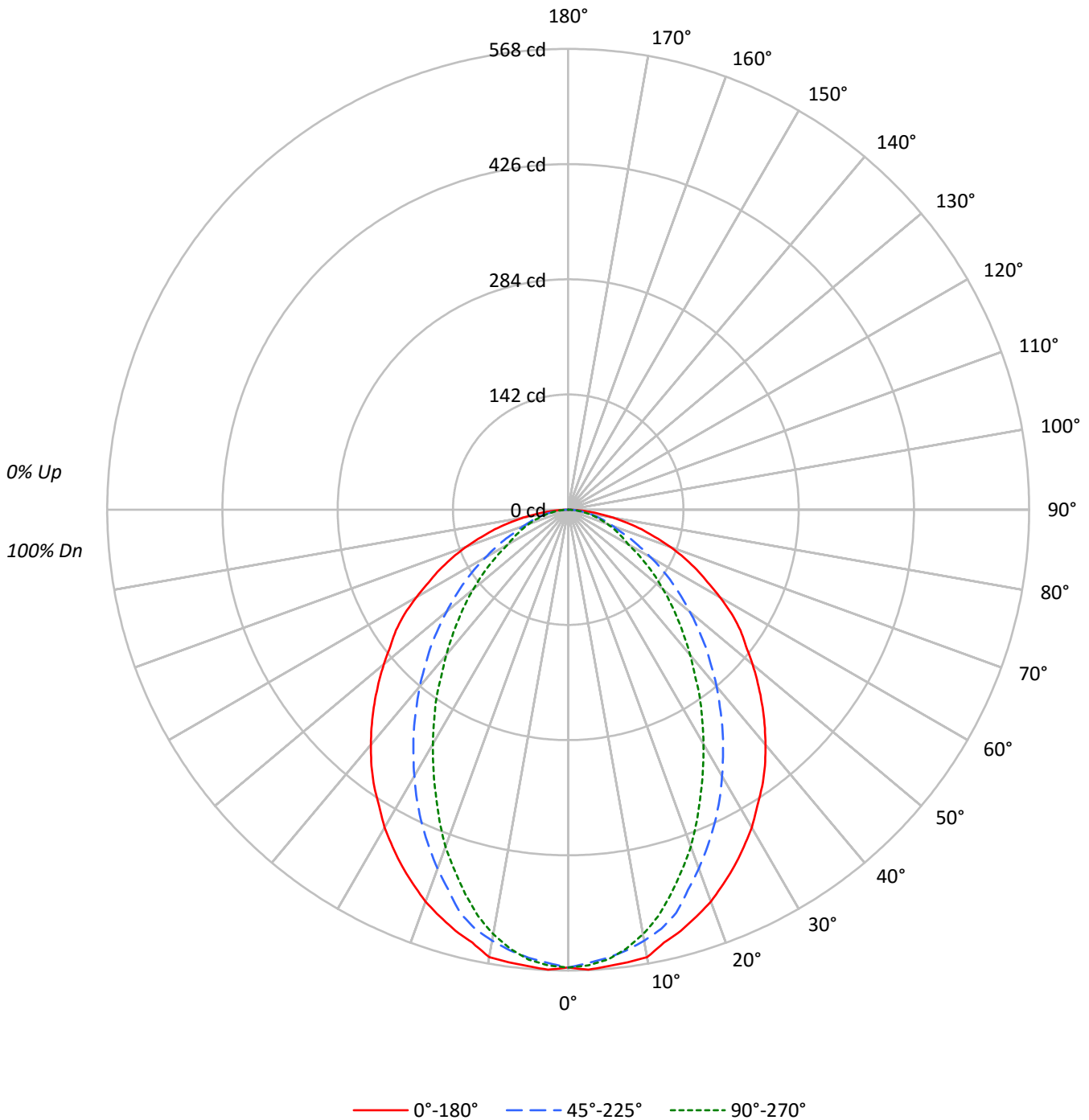
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	43	38	48	42	37	47	41	37	35
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11077	11077	11077
5°	11129	10926	10970
10°	11160	10752	10590
15°	10917	10456	9960
20°	10735	9833	9233
25°	10498	9244	8367
30°	10252	8595	7555
35°	9983	7946	6779
40°	9691	7293	5989
45°	9372	6654	5302
50°	9055	5980	4660
55°	8867	5332	4035
60°	8476	4629	3376
65°	8115	3920	3168
70°	7702	3323	2950
75°	7099	3079	2708
80°	6297	2747	2442
85°	5360	2432	2185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	4.7
10°-20°	144.2	12.8
20°-30°	198.7	17.7
30°-40°	212.6	18.9
40°-50°	193.8	17.3
50°-60°	152.8	13.6
60°-70°	100.6	9.0
70°-80°	52.5	4.7
80°-90°	14.2	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°	395.8	35.3
0°-40°	608.4	54.2
0°-60°	955.0	85.1
0°-90°	1122.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	565	562	554	559	557	54
15°	537	529	514	499	490	151
25°	485	466	427	400	386	223
35°	417	385	332	295	283	260
45°	338	298	240	203	191	261
55°	259	212	156	127	118	230
65°	175	129	84	70	68	173
75°	94	55	41	37	36	99
85°	24	12	11	10	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	564.3	564.3	564.3	564.3	564.3
2.5°	567.5	564.8	559.4	563.7	562.1
5°	564.8	561.5	554.5	558.8	556.7
7.5°	562.6	557.8	548.0	549.6	545.9
10°	559.9	554.0	539.4	535.6	531.3
12.5°	546.4	543.2	529.1	518.3	512.9
15°	537.2	529.1	514.5	498.8	490.1
17.5°	525.8	516.6	491.2	476.1	465.8
20°	513.9	501.0	470.7	453.9	442.0
22.5°	499.3	485.3	449.0	427.9	414.4
25°	484.7	466.3	426.8	399.8	386.3
27.5°	468.5	447.4	403.6	373.8	359.8
30°	452.3	427.4	379.2	346.8	333.3
32.5°	433.3	406.8	354.9	319.2	307.3
35°	416.6	385.2	331.6	294.8	282.9
37.5°	398.2	364.1	307.3	270.0	255.9
40°	378.2	341.9	284.6	246.7	233.7
42.5°	358.1	320.3	260.8	222.9	211.5
45°	337.6	298.1	239.7	202.9	191.0
47.5°	317.0	277.0	216.9	182.3	171.5
50°	296.5	255.3	195.8	163.4	152.6
52.5°	275.9	233.7	175.3	144.4	135.2
55°	259.1	212.1	155.8	127.1	117.9
57.5°	239.1	191.5	136.9	110.4	101.2
60°	215.9	169.9	117.9	92.5	86.0
62.5°	193.7	149.9	100.1	79.5	76.8
65°	174.7	129.3	84.4	69.8	68.2
67.5°	154.2	109.8	68.2	61.1	59.5
70°	134.2	90.9	57.9	52.5	51.4
72.5°	112.0	72.0	49.2	44.4	43.3
75°	93.6	55.2	40.6	36.8	35.7
77.5°	73.6	40.0	31.9	29.2	28.7
80°	55.7	29.2	24.3	22.7	21.6
82.5°	37.3	20.0	16.8	16.2	15.7
85°	23.8	11.9	10.8	10.3	9.7
87.5°	9.7	5.4	4.9	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)