

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: P231664

Luminaire Tested: **S122-DR-LO-30-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122-DR-LO-30-X-0048-1-U-DD-1-W
Description: DEFINE 2 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: 1234.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.14' x L: 3.92' x H: 0')
CIE Type: Direct

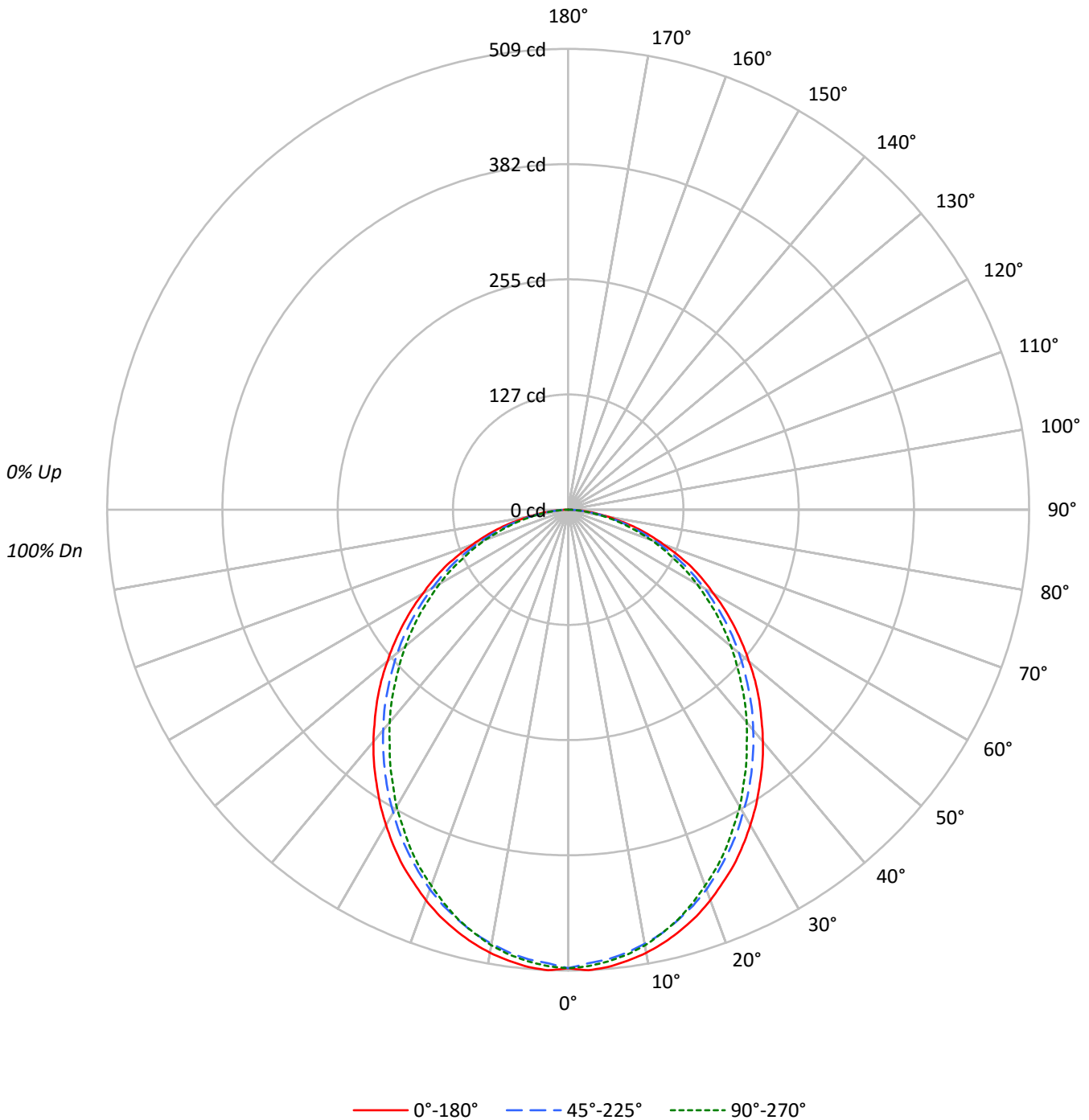
Input Watts (W): 13.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9941	9941	9941
5°	9990	9825	9870
10°	9907	9705	9739
15°	9771	9533	9523
20°	9591	9323	9231
25°	9379	9051	8932
30°	9119	8754	8591
35°	8843	8454	8215
40°	8572	8144	7857
45°	8281	7831	7493
50°	7952	7513	7171
55°	7639	7180	6817
60°	7275	6816	6447
65°	7004	6438	5997
70°	6422	5940	5556
75°	5908	5317	4937
80°	5031	4590	4273
85°	4144	3626	3266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.9
10°-20°	133.1	10.8
20°-30°	193.6	15.7
30°-40°	221.8	18.0
40°-50°	218.4	17.7
50°-60°	188.4	15.3
60°-70°	137.7	11.1
70°-80°	75.1	6.1
80°-90°	19.2	1.6
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°	374.3	30.3
0°-40°	596.0	48.3
0°-60°	1002.8	81.2
0°-90°	1234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	507	504	499	502	501	48
15°	481	476	469	470	469	135
25°	433	427	418	416	412	199
35°	369	363	353	346	343	231
45°	298	292	282	274	270	230
55°	223	220	210	202	199	200
65°	151	146	139	132	129	148
75°	78	74	70	67	65	82
85°	18	17	16	15	14	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.4	506.4	506.4	506.4	506.4
2.5°	509.2	507.0	501.4	505.9	504.7
5°	507.0	504.2	498.6	502.0	500.9
7.5°	502.5	499.7	493.6	497.0	495.8
10°	497.0	493.1	486.9	489.7	488.6
12.5°	489.7	485.3	479.1	481.4	479.1
15°	480.8	476.4	469.1	470.2	468.6
17.5°	470.8	465.8	458.6	458.6	455.8
20°	459.1	454.1	446.3	444.6	441.9
22.5°	445.8	440.7	432.4	431.3	427.9
25°	433.0	427.4	417.9	415.7	412.4
27.5°	417.9	412.4	402.9	398.5	395.1
30°	402.3	396.2	386.2	382.3	379.0
32.5°	386.2	380.6	370.1	364.5	360.1
35°	369.0	363.4	352.8	346.1	342.8
37.5°	352.3	345.6	335.6	328.3	323.9
40°	334.5	327.8	317.8	310.5	306.6
42.5°	316.1	310.0	300.5	292.2	288.8
45°	298.3	292.2	282.1	274.4	269.9
47.5°	279.9	273.8	263.8	255.4	252.1
50°	260.4	256.0	246.0	237.6	234.8
52.5°	242.1	237.6	228.2	219.8	217.0
55°	223.2	219.8	209.8	202.0	199.2
57.5°	204.8	200.9	191.4	184.8	180.9
60°	185.3	182.0	173.6	167.0	164.2
62.5°	168.1	164.2	155.8	149.7	147.5
65°	150.8	145.8	138.6	132.4	129.1
67.5°	130.8	128.0	120.8	114.6	113.5
70°	111.9	109.1	103.5	98.5	96.8
72.5°	95.2	91.8	86.3	82.4	80.1
75°	77.9	74.0	70.1	66.8	65.1
77.5°	60.1	58.4	54.5	51.8	50.6
80°	44.5	43.4	40.6	37.8	37.8
82.5°	31.2	29.5	27.3	25.6	25.0
85°	18.4	17.3	16.1	15.0	14.5
87.5°	7.8	7.2	6.1	5.6	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)