

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: P243111

Luminaire Tested: **S122DR-H485D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-H485D927-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1458.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

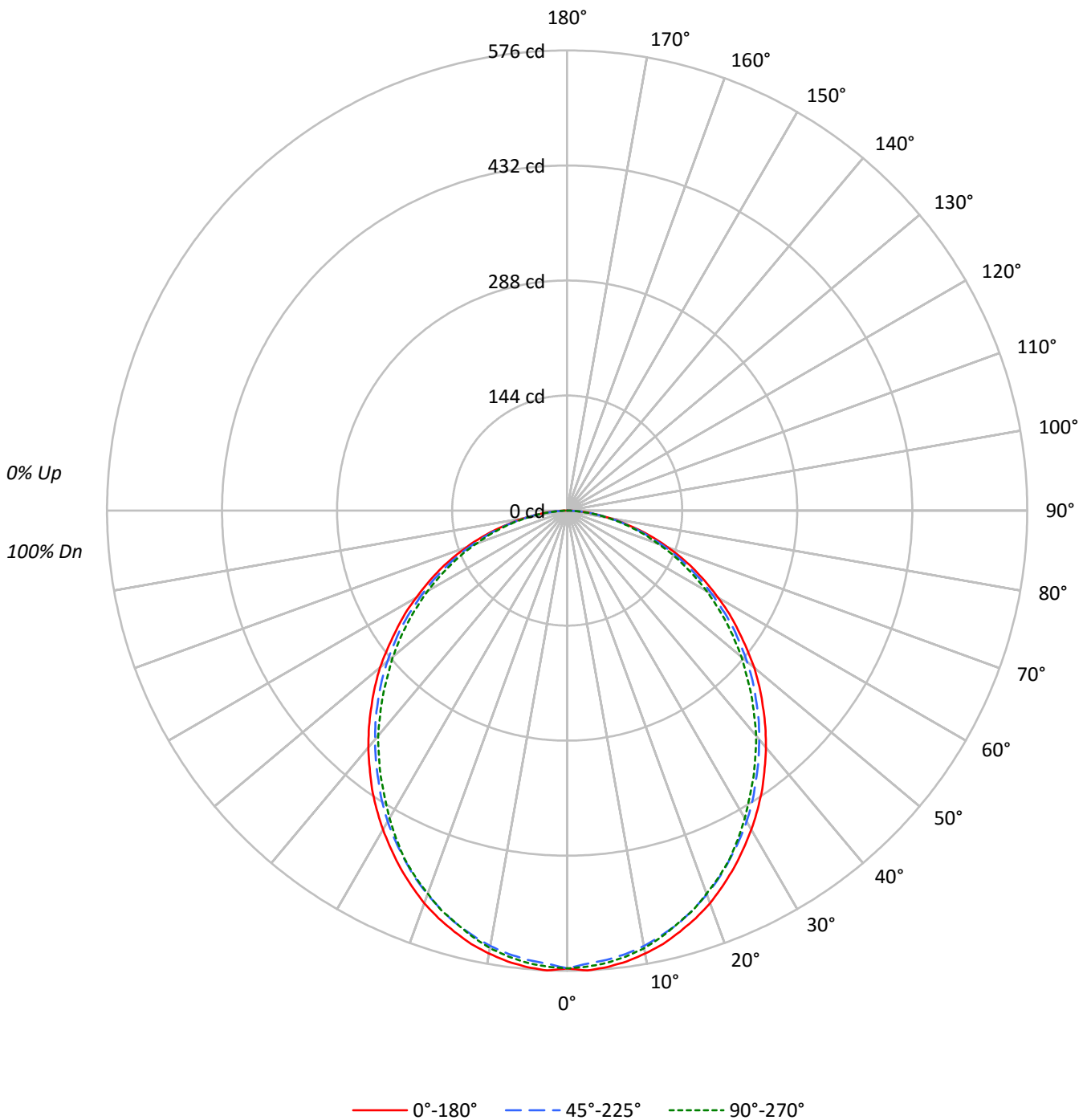
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	69	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	52	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	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	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°	10914	10914	10914
5°	10968	10795	10866
10°	10889	10706	10756
15°	10759	10560	10550
20°	10599	10362	10342
25°	10378	10124	10111
30°	10142	9884	9781
35°	9899	9578	9457
40°	9625	9297	9153
45°	9334	9005	8779
50°	9062	8700	8437
55°	8681	8382	8066
60°	8309	7989	7684
65°	7950	7567	7238
70°	7468	7090	6733
75°	6800	6528	6219
80°	5912	5737	5507
85°	5070	4502	4152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.7
10°-20°	151.9	10.4
20°-30°	223.3	15.3
30°-40°	259.3	17.8
40°-50°	258.9	17.8
50°-60°	225.5	15.5
60°-70°	166.8	11.4
70°-80°	94.0	6.4
80°-90°	24.5	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°	429.1	29.4
0°-40°	688.4	47.2
0°-60°	1172.8	80.4
0°-90°	1458.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	574	571	565	569	568	54
15°	546	543	536	538	535	154
25°	494	490	482	481	481	227
35°	426	421	412	408	407	266
45°	346	343	334	329	326	268
55°	261	259	252	246	243	234
65°	176	174	168	163	161	174
75°	92	92	89	86	84	98
85°	23	22	21	20	19	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.0	573.0	573.0	573.0	573.0
2.5°	576.2	573.6	567.7	572.5	571.4
5°	573.6	570.9	564.6	569.3	568.3
7.5°	569.3	566.7	559.8	564.6	563.0
10°	563.0	559.8	553.5	556.7	556.1
12.5°	555.6	552.4	545.0	547.7	546.6
15°	545.6	542.9	535.5	537.6	535.0
17.5°	535.0	530.8	523.9	526.0	524.4
20°	522.9	518.6	511.2	512.3	510.2
22.5°	508.6	504.4	497.5	497.5	496.4
25°	493.8	489.6	481.7	481.1	481.1
27.5°	477.4	473.7	465.8	464.2	463.2
30°	461.1	457.9	449.4	446.3	444.7
32.5°	443.6	439.4	431.5	427.8	425.1
35°	425.7	420.9	411.9	408.2	406.7
37.5°	406.1	401.4	393.5	390.3	387.1
40°	387.1	382.9	373.9	369.2	368.1
42.5°	367.1	362.8	354.9	349.6	346.5
45°	346.5	342.8	334.3	329.0	325.9
47.5°	326.4	322.2	314.8	308.4	304.2
50°	305.8	301.6	293.6	286.2	284.7
52.5°	283.1	280.4	272.5	265.7	263.5
55°	261.4	259.3	252.4	245.6	242.9
57.5°	240.8	238.2	230.3	225.0	221.8
60°	218.1	216.5	209.7	203.9	201.7
62.5°	197.0	194.9	189.1	183.3	180.6
65°	176.4	173.8	167.9	162.7	160.6
67.5°	155.3	152.6	147.9	143.7	141.5
70°	134.1	132.0	127.3	123.6	120.9
72.5°	113.5	111.4	107.2	103.5	103.0
75°	92.4	91.9	88.7	85.6	84.5
77.5°	72.9	72.4	70.2	68.7	67.6
80°	53.9	53.9	52.3	50.7	50.2
82.5°	37.0	37.5	35.9	34.9	34.9
85°	23.2	22.2	20.6	19.5	19.0
87.5°	9.5	7.9	7.4	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)