

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: P243214

Luminaire Tested: **S122RDR-H485D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-63)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-H485D927-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED 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: 1255.3 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

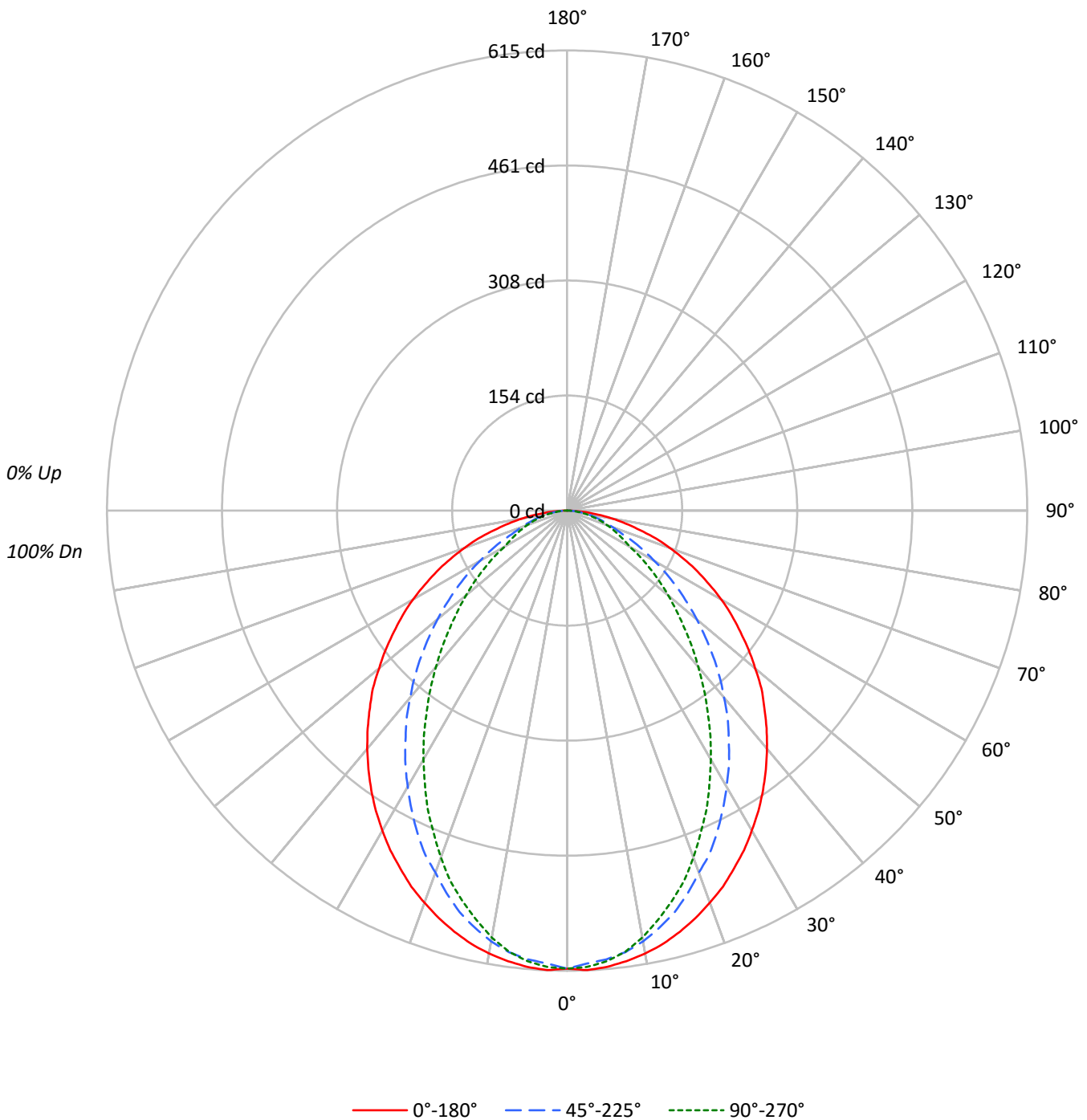
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11659	11659	11659
5°	11704	11512	11562
10°	11624	11307	11206
15°	11487	10956	10655
20°	11305	10437	9999
25°	11088	9968	9258
30°	10861	9374	8446
35°	10610	8757	7601
40°	10334	8116	6776
45°	10045	7440	5961
50°	9720	6697	5227
55°	9385	5964	4506
60°	9074	5131	3680
65°	8663	4331	3403
70°	8148	3587	3174
75°	7426	3268	2914
80°	6658	2896	2611
85°	5551	2426	2317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	4.6
10°-20°	157.1	12.5
20°-30°	220.4	17.6
30°-40°	240.1	19.1
40°-50°	220.7	17.6
50°-60°	173.2	13.8
60°-70°	113.0	9.0
70°-80°	58.4	4.7
80°-90°	15.1	1.2
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°	434.9	34.6
0°-40°	675.0	53.8
0°-60°	1068.8	85.1
0°-90°	1255.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1255.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	612	609	602	606	605	58
15°	582	576	556	544	540	164
25°	528	509	474	451	440	243
35°	456	426	377	342	327	285
45°	373	335	276	236	221	288
55°	283	240	180	146	136	253
65°	192	146	96	78	76	190
75°	101	63	44	41	40	108
85°	25	12	11	11	11	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.1	612.1	612.1	612.1	612.1
2.5°	614.7	612.1	605.8	611.6	610.5
5°	612.1	608.9	602.1	606.3	604.7
7.5°	607.4	604.2	595.2	597.3	594.7
10°	601.0	596.8	584.6	582.5	579.4
12.5°	593.1	587.3	570.9	564.6	560.3
15°	582.5	575.7	555.6	544.5	540.3
17.5°	570.9	560.9	536.1	523.4	519.2
20°	557.7	546.1	514.9	501.7	493.3
22.5°	544.0	529.2	497.0	476.4	466.3
25°	527.6	509.1	474.3	451.0	440.5
27.5°	511.8	490.1	450.5	423.6	411.9
30°	493.8	470.0	426.2	395.0	384.0
32.5°	475.8	448.4	402.4	368.6	356.0
35°	456.3	426.2	376.6	341.7	326.9
37.5°	436.2	405.1	352.8	314.2	300.0
40°	415.6	380.8	326.4	286.2	272.5
42.5°	394.5	359.1	301.6	260.4	247.2
45°	372.9	334.8	276.2	236.1	221.3
47.5°	352.3	311.1	250.3	212.3	198.0
50°	328.0	287.3	226.0	187.5	176.4
52.5°	305.8	263.5	202.3	165.3	155.8
55°	282.6	240.3	179.6	145.8	135.7
57.5°	260.9	216.0	156.9	126.2	116.7
60°	238.2	192.8	134.7	106.7	96.6
62.5°	214.4	169.0	115.1	88.7	85.6
65°	192.2	145.8	96.1	78.2	75.5
67.5°	168.5	124.1	76.6	68.7	66.0
70°	146.3	103.0	64.4	58.6	57.0
72.5°	124.6	82.9	54.4	49.6	48.1
75°	100.9	62.8	44.4	40.7	39.6
77.5°	80.3	44.4	35.4	32.7	31.7
80°	60.7	32.2	26.4	24.8	23.8
82.5°	41.7	21.7	18.5	17.4	16.9
85°	25.4	12.1	11.1	10.6	10.6
87.5°	10.0	4.8	4.8	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)