

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: P242875

Luminaire Tested: **S125RDR-S610D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

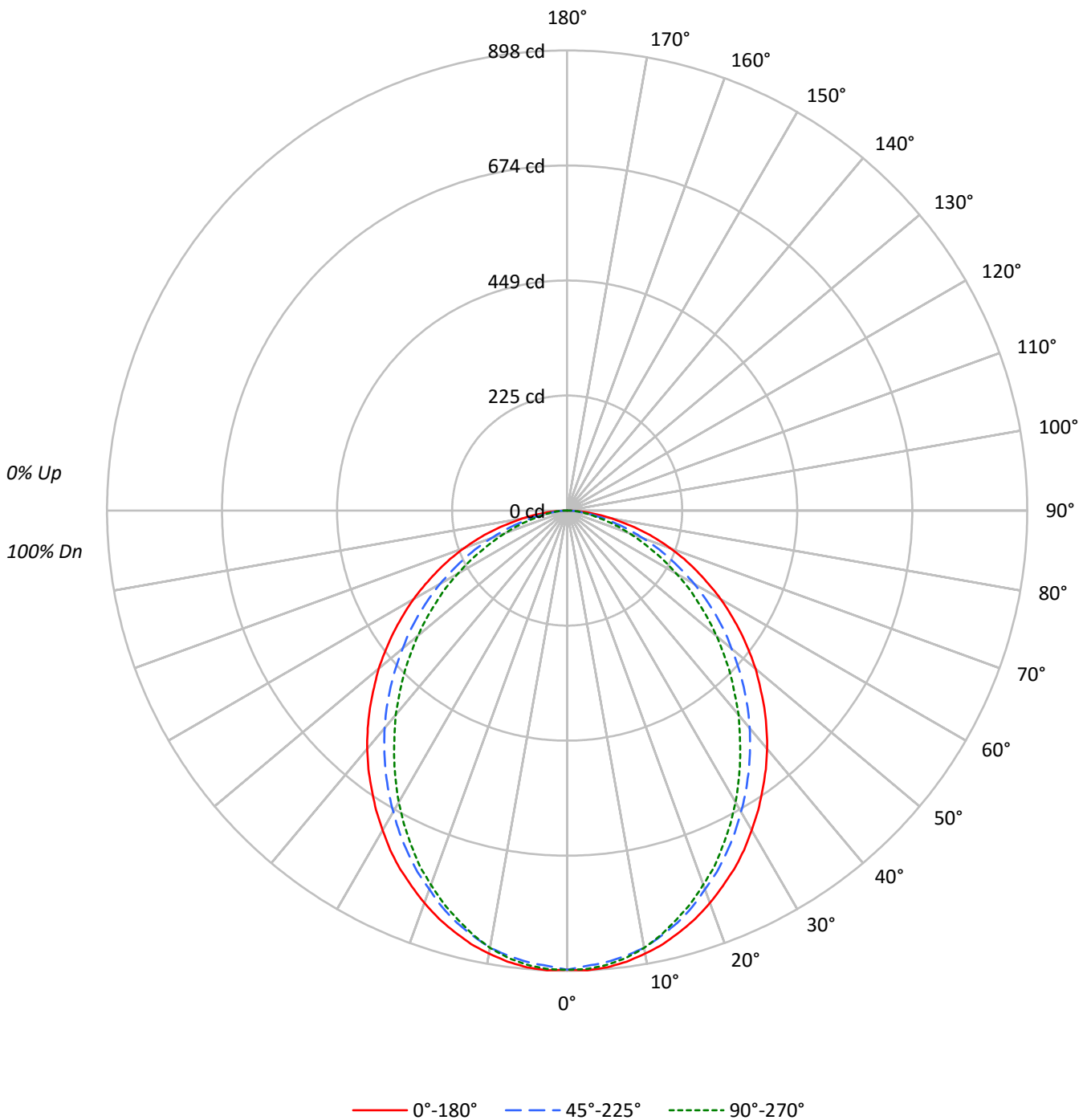
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35		46	39	35		45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6368	6368	6368
5°	6383	6310	6350
10°	6335	6252	6252
15°	6260	6125	6076
20°	6163	5948	5876
25°	6050	5774	5647
30°	5910	5571	5393
35°	5766	5361	5109
40°	5633	5143	4828
45°	5469	4898	4524
50°	5305	4632	4205
55°	5115	4378	3866
60°	4925	4070	3501
65°	4700	3710	3084
70°	4445	3263	2658
75°	4089	2752	2211
80°	3602	2161	1854
85°	3034	1770	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	4.0
10°-20°	235.7	11.1
20°-30°	341.7	16.1
30°-40°	389.3	18.4
40°-50°	379.5	17.9
50°-60°	319.4	15.1
60°-70°	223.8	10.6
70°-80°	114.7	5.4
80°-90°	28.6	1.4
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°	661.7	31.3
0°-40°	1051.1	49.6
0°-60°	1749.9	82.7
0°-90°	2117.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	895	892	884	891	890	85
15°	851	847	832	832	826	240
25°	772	761	736	728	720	355
35°	665	648	618	598	589	416
45°	544	524	487	460	450	420
55°	413	391	353	323	312	369
65°	280	256	221	194	183	277
75°	149	129	100	85	80	157
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.0	896.0	896.0	896.0	896.0
2.5°	898.1	896.0	889.3	896.0	895.4
5°	894.7	892.0	884.5	891.3	890.0
7.5°	887.9	885.2	876.4	881.8	880.5
10°	877.8	875.7	866.3	868.3	866.3
12.5°	866.3	863.6	850.0	851.4	848.0
15°	850.7	846.6	832.4	831.8	825.7
17.5°	834.5	828.4	811.4	808.1	803.3
20°	814.8	808.1	786.4	783.0	776.9
22.5°	793.2	786.4	763.4	756.0	751.2
25°	771.5	761.4	736.3	727.5	720.1
27.5°	747.2	735.0	708.6	697.1	689.6
30°	720.1	707.2	678.8	663.2	657.1
32.5°	693.7	678.1	649.0	631.4	623.3
35°	664.6	648.3	617.9	598.3	588.8
37.5°	636.8	617.2	586.1	563.1	553.6
40°	607.1	586.8	554.3	528.6	520.4
42.5°	575.9	555.0	521.1	496.7	483.9
45°	544.1	524.5	487.3	460.2	450.1
47.5°	511.0	490.7	453.4	425.7	414.2
50°	479.8	457.5	418.9	390.5	380.3
52.5°	446.0	423.0	387.1	356.0	345.8
55°	412.8	391.2	353.3	322.8	312.0
57.5°	379.0	356.0	319.4	289.7	280.2
60°	346.5	322.8	286.3	256.5	246.3
62.5°	312.0	289.7	252.4	225.4	215.2
65°	279.5	256.5	220.6	193.6	183.4
67.5°	247.0	224.0	189.5	163.8	155.7
70°	213.9	190.8	157.0	136.0	127.9
72.5°	181.4	159.0	127.9	109.0	104.2
75°	148.9	128.6	100.2	85.3	80.5
77.5°	115.7	99.5	75.8	64.3	60.2
80°	88.0	71.7	52.8	46.7	45.3
82.5°	60.9	46.7	35.2	33.2	32.5
85°	37.2	25.0	21.7	21.0	20.3
87.5°	15.6	10.8	10.2	10.2	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)