

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: P242796

Luminaire Tested: **S125DR-S610D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S610D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2106.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

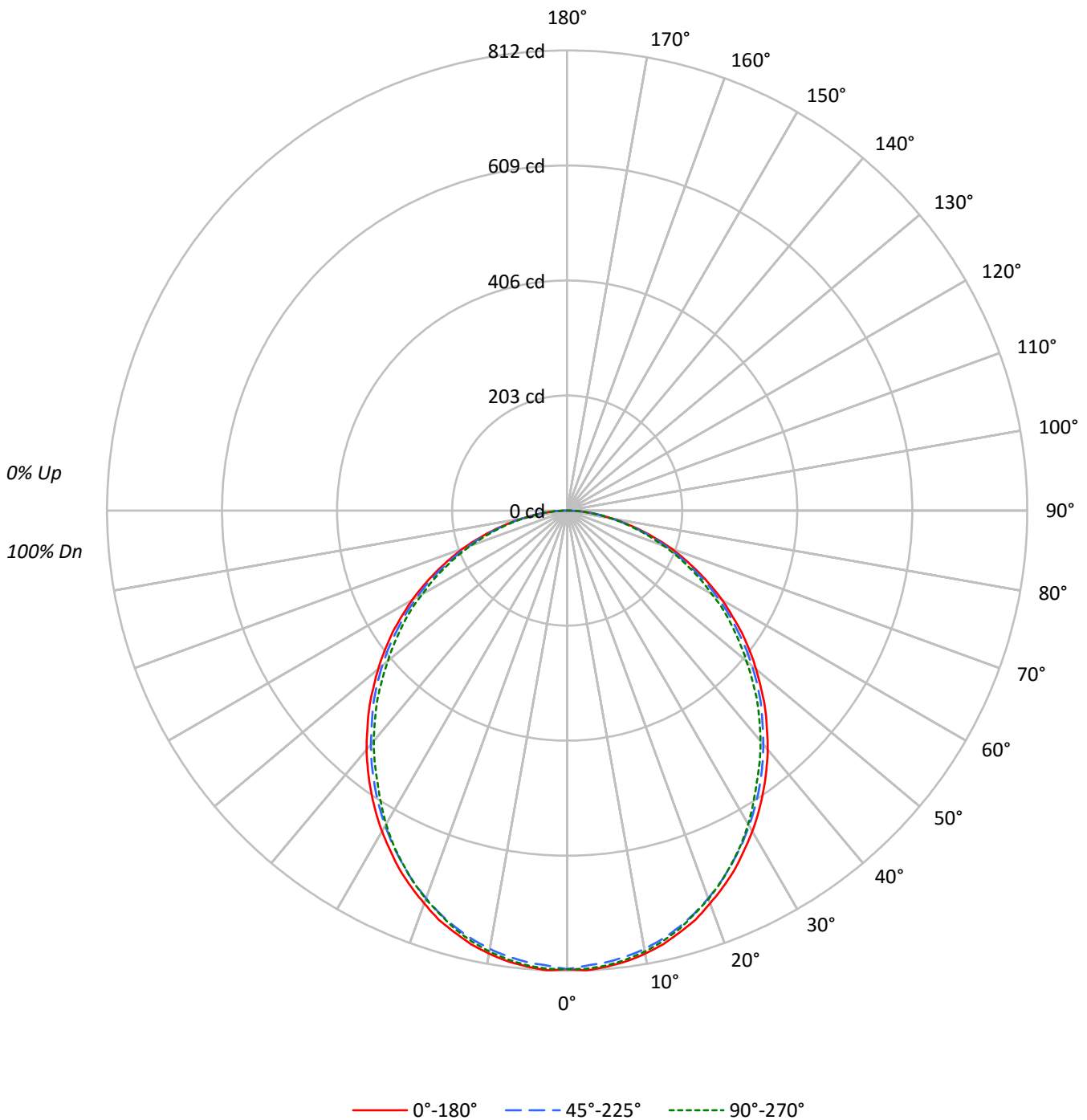
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5752	5752	5752
5°	5765	5710	5747
10°	5730	5670	5702
15°	5667	5602	5625
20°	5579	5506	5516
25°	5483	5393	5388
30°	5365	5270	5244
35°	5239	5139	5066
40°	5108	4996	4925
45°	4968	4865	4768
50°	4814	4708	4567
55°	4665	4530	4404
60°	4488	4350	4196
65°	4275	4135	3994
70°	4071	3886	3753
75°	3710	3586	3463
80°	3303	3250	3172
85°	2870	2928	2764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.6
10°-20°	215.7	10.2
20°-30°	318.5	15.1
30°-40°	371.6	17.6
40°-50°	373.2	17.7
50°-60°	327.6	15.6
60°-70°	244.0	11.6
70°-80°	139.4	6.6
80°-90°	40.2	1.9
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°	610.5	29.0
0°-40°	982.1	46.6
0°-60°	1682.9	79.9
0°-90°	2106.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	808	807	800	806	806	77
15°	770	768	761	764	764	217
25°	699	696	688	689	687	322
35°	604	601	592	589	584	378
45°	494	492	484	476	474	381
55°	376	375	366	360	355	336
65°	254	253	246	240	238	252
75°	135	134	131	129	126	144
85°	35	36	36	35	34	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	809.3	809.3	809.3	809.3	809.3
2.5°	811.9	809.9	803.5	809.9	809.3
5°	808.0	806.7	800.3	806.1	805.5
7.5°	802.3	801.0	793.9	799.7	799.1
10°	793.9	792.7	785.6	790.7	790.1
12.5°	783.7	781.1	774.7	778.6	778.6
15°	770.2	768.3	761.3	764.5	764.5
17.5°	756.2	753.0	745.9	749.8	746.6
20°	737.6	736.3	728.0	732.5	729.3
22.5°	719.0	716.5	708.8	711.3	709.4
25°	699.2	696.0	687.7	688.9	687.0
27.5°	676.1	674.2	665.9	666.5	664.6
30°	653.7	651.8	642.2	640.9	639.0
32.5°	629.4	626.2	617.9	615.3	611.5
35°	603.8	601.2	592.3	589.0	583.9
37.5°	577.5	574.3	566.0	561.5	558.3
40°	550.6	547.4	538.5	532.7	530.8
42.5°	521.8	519.3	510.3	505.2	502.0
45°	494.3	491.7	484.0	476.4	474.4
47.5°	464.2	464.8	455.2	447.5	443.1
50°	435.4	433.5	425.8	417.5	413.0
52.5°	405.9	404.7	396.3	389.3	384.2
55°	376.5	374.6	365.6	359.8	355.4
57.5°	345.1	344.5	336.8	329.1	327.2
60°	315.7	313.1	306.0	299.6	295.2
62.5°	284.9	283.0	277.2	270.2	267.0
65°	254.2	252.9	245.9	240.1	237.5
67.5°	224.1	221.5	216.4	211.3	210.0
70°	195.9	192.7	187.0	183.1	180.6
72.5°	165.2	163.3	160.1	155.6	153.0
75°	135.1	133.8	130.6	128.7	126.1
77.5°	106.9	106.3	104.4	103.1	101.2
80°	80.7	80.7	79.4	78.8	77.5
82.5°	57.6	56.3	56.3	55.1	55.1
85°	35.2	35.9	35.9	35.2	33.9
87.5°	17.3	17.3	16.6	16.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)