

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: P242791

Luminaire Tested: **S125DR-S610D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242791
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-S610D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.9 lumens
Efficiency: N/A
Efficacy: 108.2 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

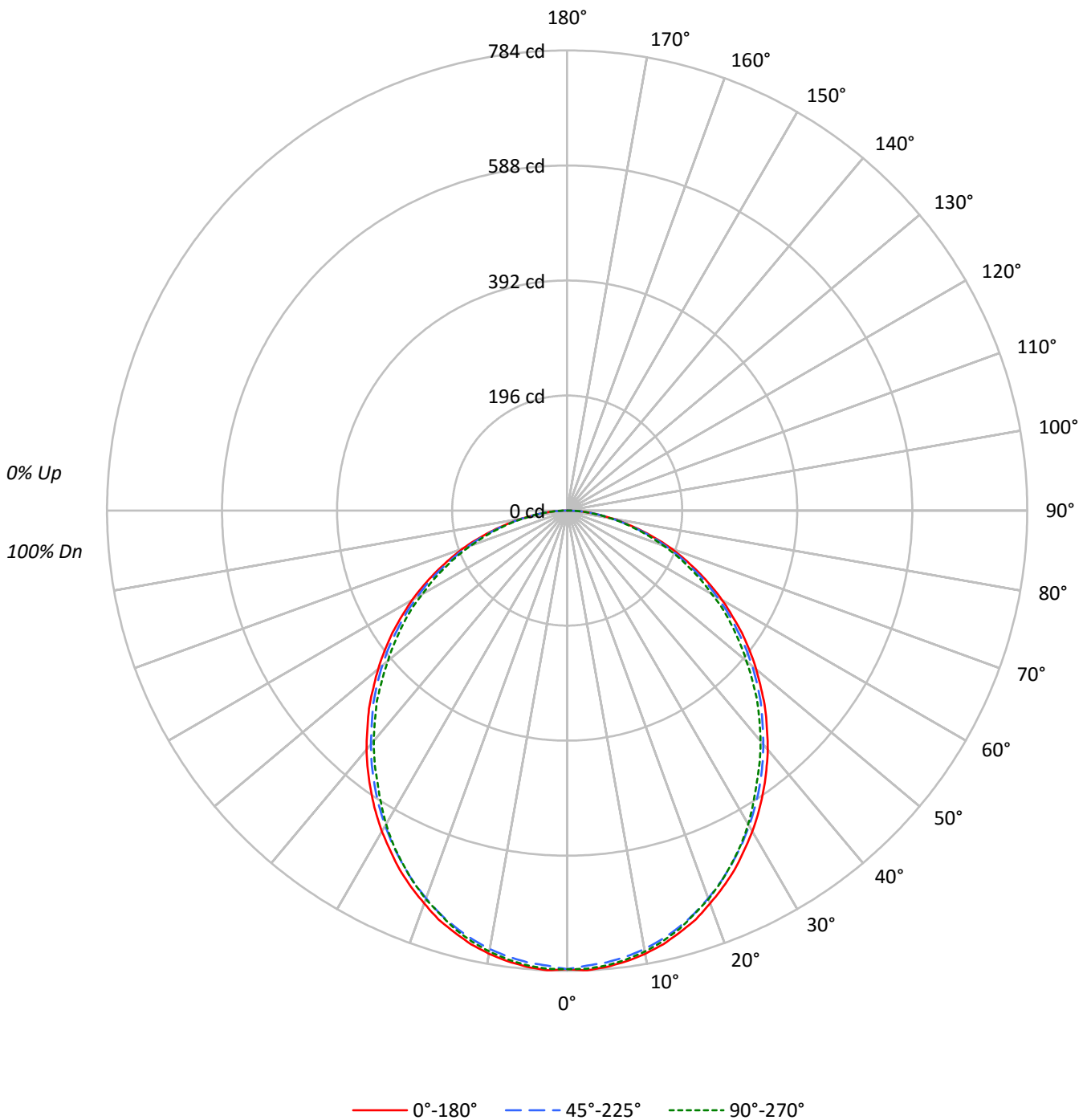
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5554	5554	5554
5°	5566	5514	5548
10°	5533	5475	5506
15°	5472	5409	5432
20°	5387	5316	5326
25°	5294	5207	5202
30°	5180	5089	5064
35°	5058	4962	4892
40°	4933	4824	4755
45°	4797	4698	4605
50°	4648	4546	4410
55°	4504	4374	4251
60°	4333	4200	4051
65°	4127	3992	3858
70°	3932	3751	3622
75°	3581	3463	3345
80°	3188	3139	3062
85°	2773	2822	2675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.6
10°-20°	208.3	10.2
20°-30°	307.5	15.1
30°-40°	358.8	17.6
40°-50°	360.3	17.7
50°-60°	316.3	15.6
60°-70°	235.6	11.6
70°-80°	134.6	6.6
80°-90°	38.8	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°	589.5	29.0
0°-40°	948.3	46.6
0°-60°	1624.9	79.9
0°-90°	2033.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	780	779	773	778	778	74
15°	744	742	735	738	738	210
25°	675	672	664	665	663	311
35°	583	580	572	569	564	365
45°	477	475	467	460	458	368
55°	364	362	353	347	343	325
65°	245	244	237	232	229	243
75°	130	129	126	124	122	139
85°	34	35	35	34	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.4	781.4	781.4	781.4	781.4
2.5°	783.9	782.0	775.9	782.0	781.4
5°	780.2	779.0	772.8	778.3	777.7
7.5°	774.6	773.4	766.6	772.2	771.5
10°	766.6	765.4	758.6	763.5	762.9
12.5°	756.7	754.2	748.0	751.8	751.8
15°	743.7	741.9	735.1	738.2	738.2
17.5°	730.1	727.0	720.2	723.9	720.8
20°	712.2	711.0	702.9	707.2	704.2
22.5°	694.3	691.8	684.4	686.8	685.0
25°	675.1	672.0	664.0	665.2	663.4
27.5°	652.8	651.0	642.9	643.6	641.7
30°	631.2	629.3	620.1	618.8	617.0
32.5°	607.7	604.6	596.6	594.1	590.4
35°	583.0	580.5	571.9	568.8	563.8
37.5°	557.6	554.5	546.5	542.2	539.1
40°	531.7	528.6	519.9	514.4	512.5
42.5°	503.8	501.4	492.7	487.8	484.7
45°	477.3	474.8	467.4	460.0	458.1
47.5°	448.2	448.8	439.6	432.1	427.8
50°	420.4	418.5	411.1	403.1	398.8
52.5°	392.0	390.7	382.7	375.9	370.9
55°	363.5	361.7	353.0	347.4	343.1
57.5°	333.2	332.6	325.2	317.8	315.9
60°	304.8	302.3	295.5	289.3	285.0
62.5°	275.1	273.3	267.7	260.9	257.8
65°	245.4	244.2	237.4	231.8	229.4
67.5°	216.4	213.9	209.0	204.0	202.8
70°	189.2	186.1	180.5	176.8	174.3
72.5°	159.5	157.6	154.6	150.2	147.8
75°	130.4	129.2	126.1	124.3	121.8
77.5°	103.2	102.6	100.8	99.5	97.7
80°	77.9	77.9	76.7	76.0	74.8
82.5°	55.6	54.4	54.4	53.2	53.2
85°	34.0	34.6	34.6	34.0	32.8
87.5°	16.7	16.7	16.1	16.1	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)