

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: P242786

Luminaire Tested: **S125DR-S610D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242786
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-S610D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.9 lumens
Efficiency: N/A
Efficacy: 102.4 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

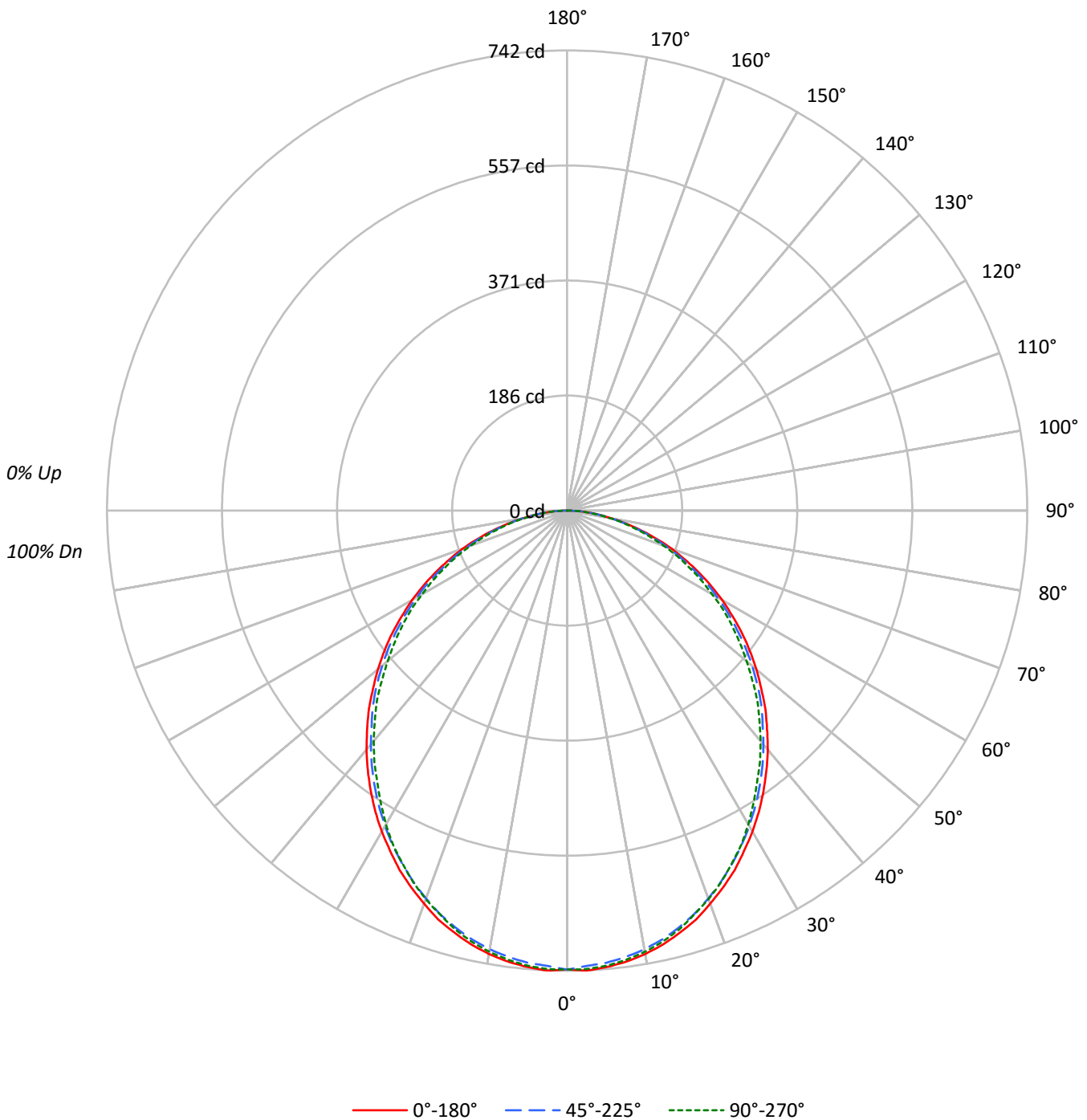
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5259	5259	5259
5°	5271	5221	5254
10°	5239	5184	5214
15°	5182	5121	5143
20°	5101	5034	5043
25°	5013	4930	4926
30°	4905	4819	4794
35°	4789	4698	4632
40°	4671	4568	4503
45°	4542	4449	4360
50°	4402	4305	4175
55°	4265	4142	4026
60°	4102	3977	3837
65°	3908	3781	3653
70°	3722	3551	3431
75°	3391	3279	3166
80°	3021	2971	2898
85°	2626	2675	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.6
10°-20°	197.2	10.2
20°-30°	291.2	15.1
30°-40°	339.7	17.6
40°-50°	341.2	17.7
50°-60°	299.5	15.6
60°-70°	223.1	11.6
70°-80°	127.4	6.6
80°-90°	36.8	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°	558.2	29.0
0°-40°	897.9	46.6
0°-60°	1538.6	79.9
0°-90°	1925.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	739	738	732	737	736	70
15°	704	702	696	699	699	199
25°	639	636	629	630	628	294
35°	552	550	542	539	534	345
45°	452	450	443	436	434	348
55°	344	342	334	329	325	307
65°	232	231	225	220	217	230
75°	124	122	119	118	115	131
85°	32	33	33	32	31	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.0	740.0	740.0	740.0	740.0
2.5°	742.3	740.5	734.7	740.5	740.0
5°	738.8	737.6	731.8	737.0	736.4
7.5°	733.5	732.3	725.9	731.2	730.6
10°	725.9	724.7	718.3	723.0	722.4
12.5°	716.5	714.2	708.3	711.9	711.9
15°	704.2	702.5	696.0	699.0	699.0
17.5°	691.4	688.4	682.0	685.5	682.6
20°	674.4	673.2	665.6	669.7	666.8
22.5°	657.4	655.1	648.0	650.4	648.6
25°	639.3	636.3	628.7	629.9	628.1
27.5°	618.2	616.4	608.8	609.4	607.7
30°	597.7	595.9	587.2	586.0	584.2
32.5°	575.5	572.5	564.9	562.6	559.1
35°	552.0	549.7	541.5	538.6	533.9
37.5°	528.0	525.1	517.5	513.4	510.5
40°	503.4	500.5	492.3	487.1	485.3
42.5°	477.1	474.8	466.6	461.9	459.0
45°	451.9	449.6	442.6	435.5	433.8
47.5°	424.4	425.0	416.2	409.2	405.1
50°	398.1	396.3	389.3	381.7	377.6
52.5°	371.1	370.0	362.4	355.9	351.2
55°	344.2	342.5	334.3	329.0	324.9
57.5°	315.5	314.9	307.9	300.9	299.1
60°	288.6	286.3	279.8	274.0	269.9
62.5°	260.5	258.7	253.5	247.0	244.1
65°	232.4	231.2	224.8	219.5	217.2
67.5°	204.9	202.6	197.9	193.2	192.0
70°	179.1	176.2	170.9	167.4	165.1
72.5°	151.0	149.3	146.4	142.3	139.9
75°	123.5	122.3	119.4	117.7	115.3
77.5°	97.8	97.2	95.4	94.3	92.5
80°	73.8	73.8	72.6	72.0	70.8
82.5°	52.7	51.5	51.5	50.3	50.3
85°	32.2	32.8	32.8	32.2	31.0
87.5°	15.8	15.8	15.2	15.2	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)