

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: P243627

Luminaire Tested: **S125DR-H610D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H610D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 1858.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

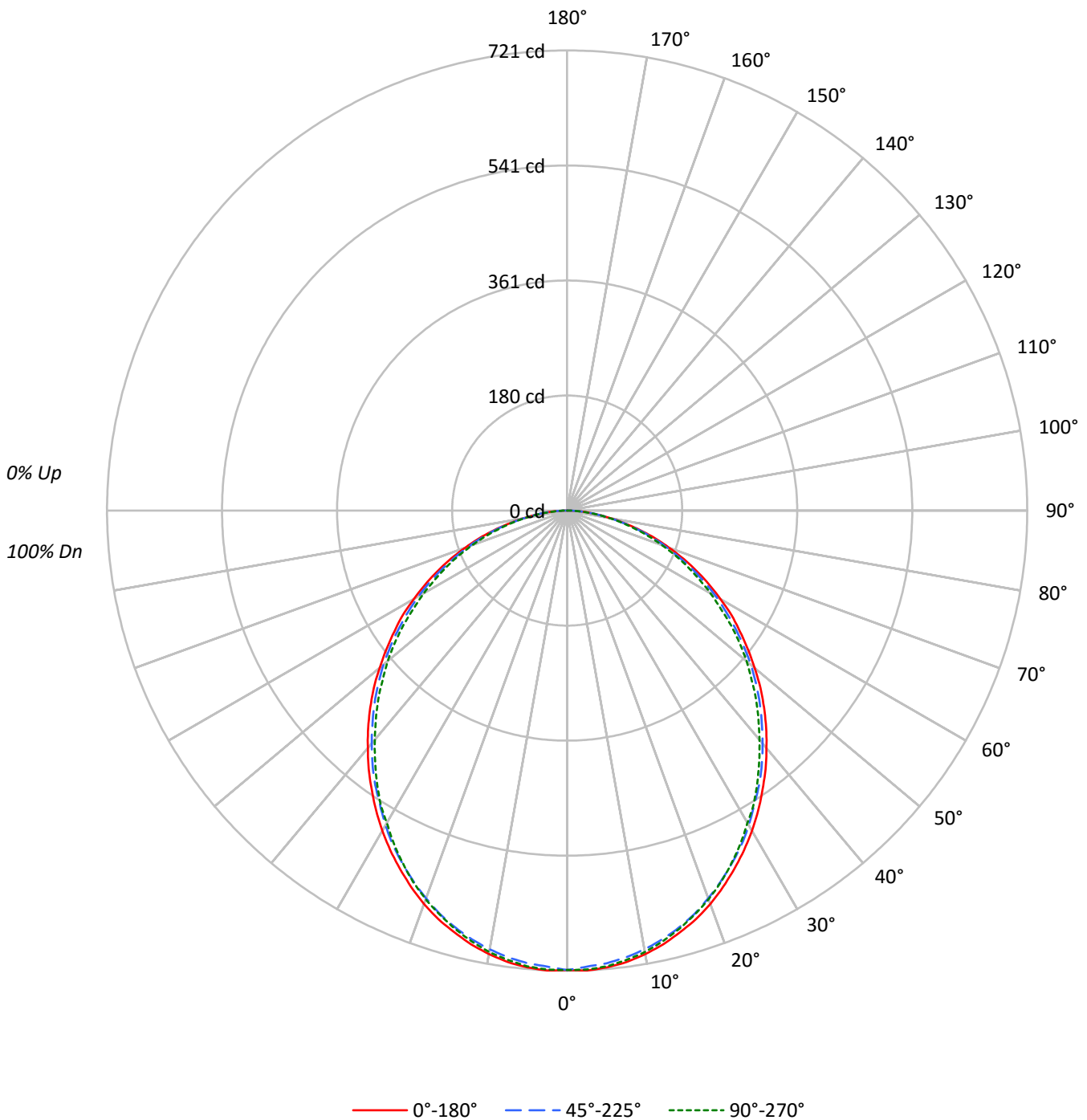
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5116	5116	5116
5°	5125	5079	5113
10°	5092	5039	5069
15°	5032	4978	4994
20°	4961	4889	4901
25°	4858	4788	4780
30°	4755	4672	4638
35°	4632	4550	4509
40°	4508	4420	4351
45°	4384	4289	4209
50°	4239	4152	4059
55°	4097	3985	3881
60°	3942	3828	3693
65°	3757	3624	3500
70°	3522	3391	3281
75°	3249	3147	3001
80°	2832	2812	2746
85°	2455	2455	2324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.7
10°-20°	191.6	10.3
20°-30°	282.5	15.2
30°-40°	329.0	17.7
40°-50°	329.7	17.7
50°-60°	288.2	15.5
60°-70°	213.9	11.5
70°-80°	121.3	6.5
80°-90°	34.0	1.8
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°	542.1	29.2
0°-40°	871.1	46.9
0°-60°	1488.9	80.1
0°-90°	1858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	717	712	717	717	68
15°	684	683	676	680	679	193
25°	620	617	610	612	610	285
35°	534	531	524	521	520	334
45°	436	435	427	420	419	336
55°	331	330	322	315	313	296
65°	223	222	216	211	208	221
75°	118	116	115	112	109	125
85°	30	30	30	29	28	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.8	719.8	719.8	719.8	719.8
2.5°	721.4	720.4	715.1	720.4	719.8
5°	718.3	717.2	711.9	717.2	716.7
7.5°	713.5	711.9	706.1	711.4	710.3
10°	705.6	704.5	698.2	702.4	702.4
12.5°	696.1	694.5	688.2	691.9	691.3
15°	683.9	682.9	676.5	680.2	678.7
17.5°	671.3	668.6	662.8	666.0	663.9
20°	655.9	653.8	646.4	649.1	648.0
22.5°	638.5	635.9	629.0	630.6	630.1
25°	619.5	617.4	610.5	612.1	609.5
27.5°	600.0	597.3	591.0	591.0	588.3
30°	579.4	576.7	569.3	569.3	565.1
32.5°	557.2	555.1	546.1	545.6	544.5
35°	533.9	530.8	524.4	521.3	519.7
37.5°	510.7	508.1	501.2	497.0	494.3
40°	485.9	484.3	476.4	472.7	469.0
42.5°	461.6	460.0	451.6	445.2	443.6
45°	436.2	435.2	426.7	420.4	418.8
47.5°	410.9	409.8	401.4	394.5	391.9
50°	383.4	383.4	375.5	368.6	367.1
52.5°	357.0	356.5	348.6	341.7	340.1
55°	330.6	330.1	321.6	314.8	313.2
57.5°	305.8	302.6	295.2	289.9	284.7
60°	277.3	275.7	269.3	262.5	259.8
62.5°	250.9	248.8	242.4	236.6	232.9
65°	223.4	221.8	215.5	210.7	208.1
67.5°	197.5	195.4	189.1	185.4	183.3
70°	169.5	167.9	163.2	158.4	157.9
72.5°	144.7	142.6	140.0	135.7	133.6
75°	118.3	116.2	114.6	112.5	109.3
77.5°	93.0	91.9	90.8	89.3	87.7
80°	69.2	69.2	68.7	67.6	67.1
82.5°	49.1	49.6	48.1	47.0	47.0
85°	30.1	30.1	30.1	29.0	28.5
87.5°	14.8	13.2	13.2	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)