

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: P243735

Luminaire Tested: **S125RDR-H610D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H610D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2099.8 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

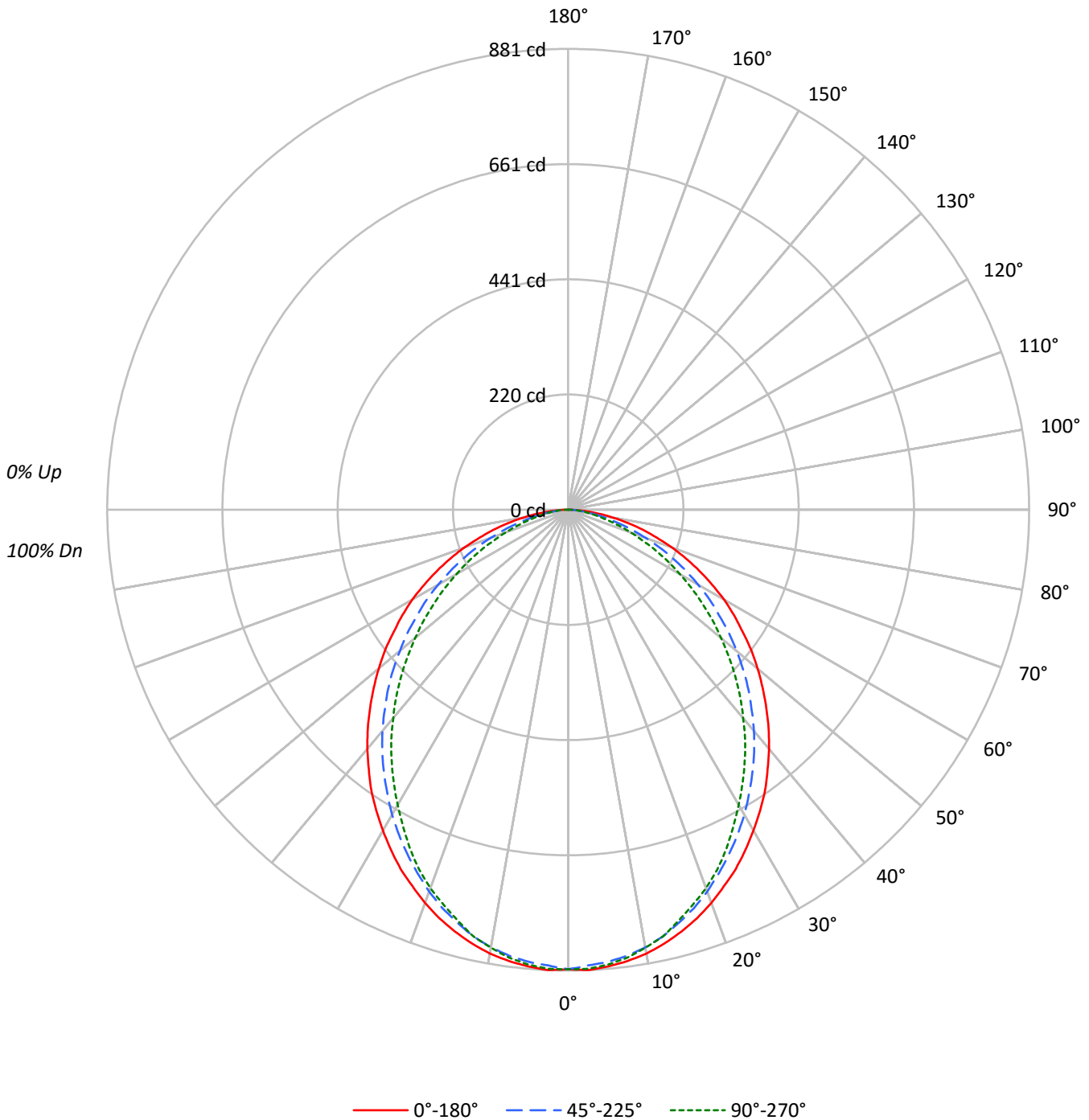
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	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	63	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	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6244	6244	6244
5°	6254	6191	6227
10°	6217	6132	6136
15°	6145	6015	5987
20°	6050	5875	5822
25°	5943	5701	5608
30°	5812	5523	5348
35°	5692	5326	5103
40°	5539	5124	4827
45°	5381	4895	4541
50°	5224	4642	4217
55°	5038	4360	3877
60°	4886	4073	3511
65°	4650	3730	3106
70°	4387	3265	2652
75°	4037	2727	2156
80°	3549	2108	1776
85°	3025	1745	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.9
10°-20°	231.8	11.0
20°-30°	337.3	16.1
30°-40°	386.2	18.4
40°-50°	377.9	18.0
50°-60°	319.1	15.2
60°-70°	223.4	10.6
70°-80°	113.4	5.4
80°-90°	27.9	1.3
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°	651.8	31.0
0°-40°	1038.0	49.4
0°-60°	1735.0	82.6
0°-90°	2099.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	877	875	868	873	873	83
15°	835	832	818	817	814	235
25°	758	749	727	720	715	349
35°	656	640	614	596	588	410
45°	535	518	487	461	452	413
55°	407	389	352	324	313	365
65°	276	255	222	194	185	274
75°	147	129	99	83	78	155
85°	37	24	21	20	20	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.5	878.5	878.5	878.5	878.5
2.5°	881.0	879.1	872.2	878.5	878.5
5°	876.6	874.7	867.8	873.4	872.8
7.5°	870.3	868.4	860.2	865.9	864.0
10°	861.5	859.0	849.6	852.7	850.2
12.5°	849.6	847.0	835.7	837.0	835.7
15°	835.1	832.0	817.5	816.9	813.7
17.5°	818.8	814.4	798.7	796.8	791.8
20°	799.9	794.3	776.7	772.9	769.8
22.5°	778.6	772.9	752.2	746.5	744.6
25°	757.8	749.0	727.0	719.5	715.1
27.5°	733.3	723.3	700.6	690.6	683.0
30°	708.2	696.9	673.0	659.8	651.6
32.5°	682.4	669.2	643.5	627.1	620.2
35°	656.0	640.3	613.9	595.7	588.2
37.5°	625.9	610.2	583.8	562.4	555.5
40°	597.0	580.6	552.3	529.1	520.3
42.5°	566.8	549.8	519.0	494.5	487.0
45°	535.4	517.8	487.0	461.2	451.8
47.5°	504.0	486.4	454.3	428.6	416.6
50°	472.5	453.7	419.8	393.4	381.4
52.5°	441.1	420.4	387.1	358.8	348.1
55°	406.6	389.0	351.9	323.6	312.9
57.5°	375.8	356.3	321.1	292.2	280.3
60°	343.7	322.4	286.5	258.3	247.0
62.5°	309.8	288.4	253.9	225.6	215.5
65°	276.5	255.1	221.8	194.2	184.7
67.5°	243.2	223.1	189.8	164.0	153.3
70°	211.1	190.4	157.1	133.8	127.6
72.5°	177.2	160.9	127.6	106.8	101.8
75°	147.0	128.8	99.3	82.9	78.5
77.5°	116.2	98.7	73.5	62.2	58.4
80°	86.7	71.6	51.5	44.6	43.4
82.5°	59.7	45.2	33.9	32.7	32.0
85°	37.1	23.9	21.4	20.1	20.1
87.5°	15.7	10.1	10.1	9.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)