

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: P243637

Luminaire Tested: **S125DR-H610D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243637
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-H610D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.6 lumens
Efficiency: N/A
Efficacy: 136.4 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

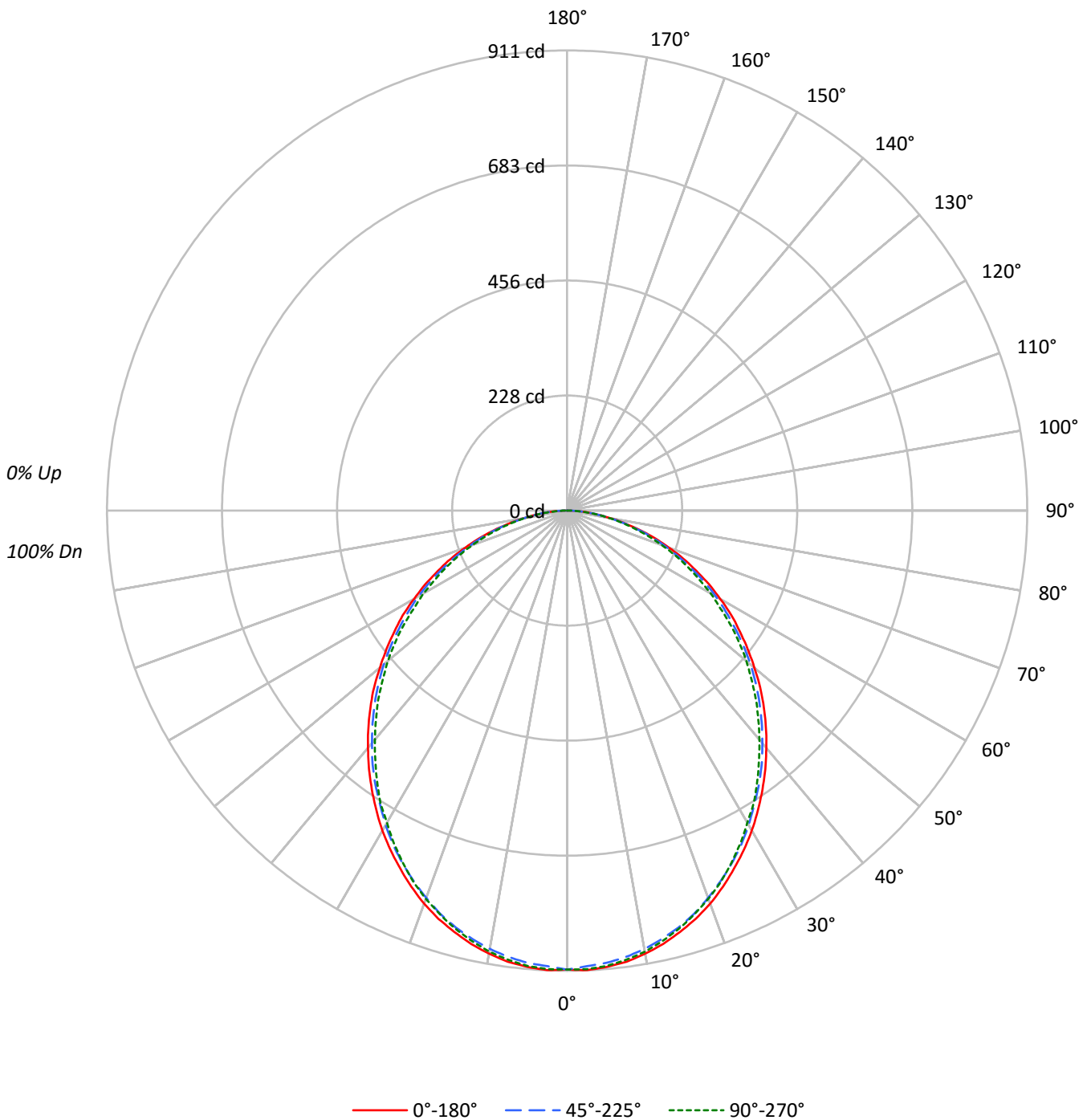
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6458	6458	6458
5°	6469	6412	6455
10°	6428	6361	6399
15°	6353	6284	6304
20°	6263	6172	6187
25°	6133	6044	6034
30°	6002	5898	5854
35°	5848	5744	5692
40°	5690	5579	5493
45°	5535	5415	5314
50°	5352	5241	5123
55°	5171	5031	4898
60°	4975	4833	4662
65°	4743	4574	4418
70°	4447	4281	4142
75°	4100	3974	3790
80°	3573	3549	3467
85°	3099	3099	2936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.7
10°-20°	241.9	10.3
20°-30°	356.6	15.2
30°-40°	415.3	17.7
40°-50°	416.1	17.7
50°-60°	363.8	15.5
60°-70°	270.0	11.5
70°-80°	153.1	6.5
80°-90°	42.9	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°	684.3	29.2
0°-40°	1099.6	46.9
0°-60°	1879.5	80.1
0°-90°	2345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	907	905	899	905	905	86
15°	863	862	854	859	857	244
25°	782	779	771	773	769	360
35°	674	670	662	658	656	422
45°	551	549	539	531	529	425
55°	417	417	406	397	395	374
65°	282	280	272	266	263	280
75°	149	147	145	142	138	158
85°	38	38	38	37	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.7	908.7	908.7	908.7	908.7
2.5°	910.7	909.4	902.7	909.4	908.7
5°	906.7	905.4	898.7	905.4	904.7
7.5°	900.7	898.7	891.4	898.0	896.7
10°	890.7	889.4	881.4	886.7	886.7
12.5°	878.7	876.7	868.7	873.4	872.7
15°	863.4	862.0	854.0	858.7	856.7
17.5°	847.4	844.0	836.7	840.7	838.0
20°	828.0	825.4	816.0	819.4	818.0
22.5°	806.0	802.7	794.0	796.0	795.4
25°	782.0	779.4	770.7	772.7	769.4
27.5°	757.4	754.0	746.0	746.0	742.7
30°	731.4	728.0	718.7	718.7	713.3
32.5°	703.3	700.7	689.3	688.7	687.3
35°	674.0	670.0	662.0	658.0	656.0
37.5°	644.7	641.3	632.7	627.3	624.0
40°	613.3	611.3	601.3	596.7	592.0
42.5°	582.7	580.7	570.0	562.0	560.0
45°	550.7	549.3	538.7	530.7	528.7
47.5°	518.7	517.3	506.7	498.0	494.7
50°	484.0	484.0	474.0	465.3	463.3
52.5°	450.7	450.0	440.0	431.3	429.3
55°	417.3	416.7	406.0	397.3	395.3
57.5°	386.0	382.0	372.7	366.0	359.3
60°	350.0	348.0	340.0	331.3	328.0
62.5°	316.7	314.0	306.0	298.7	294.0
65°	282.0	280.0	272.0	266.0	262.7
67.5°	249.3	246.7	238.7	234.0	231.3
70°	214.0	212.0	206.0	200.0	199.3
72.5°	182.7	180.0	176.7	171.3	168.7
75°	149.3	146.7	144.7	142.0	138.0
77.5°	117.3	116.0	114.7	112.7	110.7
80°	87.3	87.3	86.7	85.3	84.7
82.5°	62.0	62.7	60.7	59.3	59.3
85°	38.0	38.0	38.0	36.7	36.0
87.5°	18.7	16.7	16.7	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)