

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: P243628

Luminaire Tested: **S125DR-H850D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243628
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-H850D927-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: 2602.3 lumens
Efficiency: N/A
Efficacy: 110.3 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

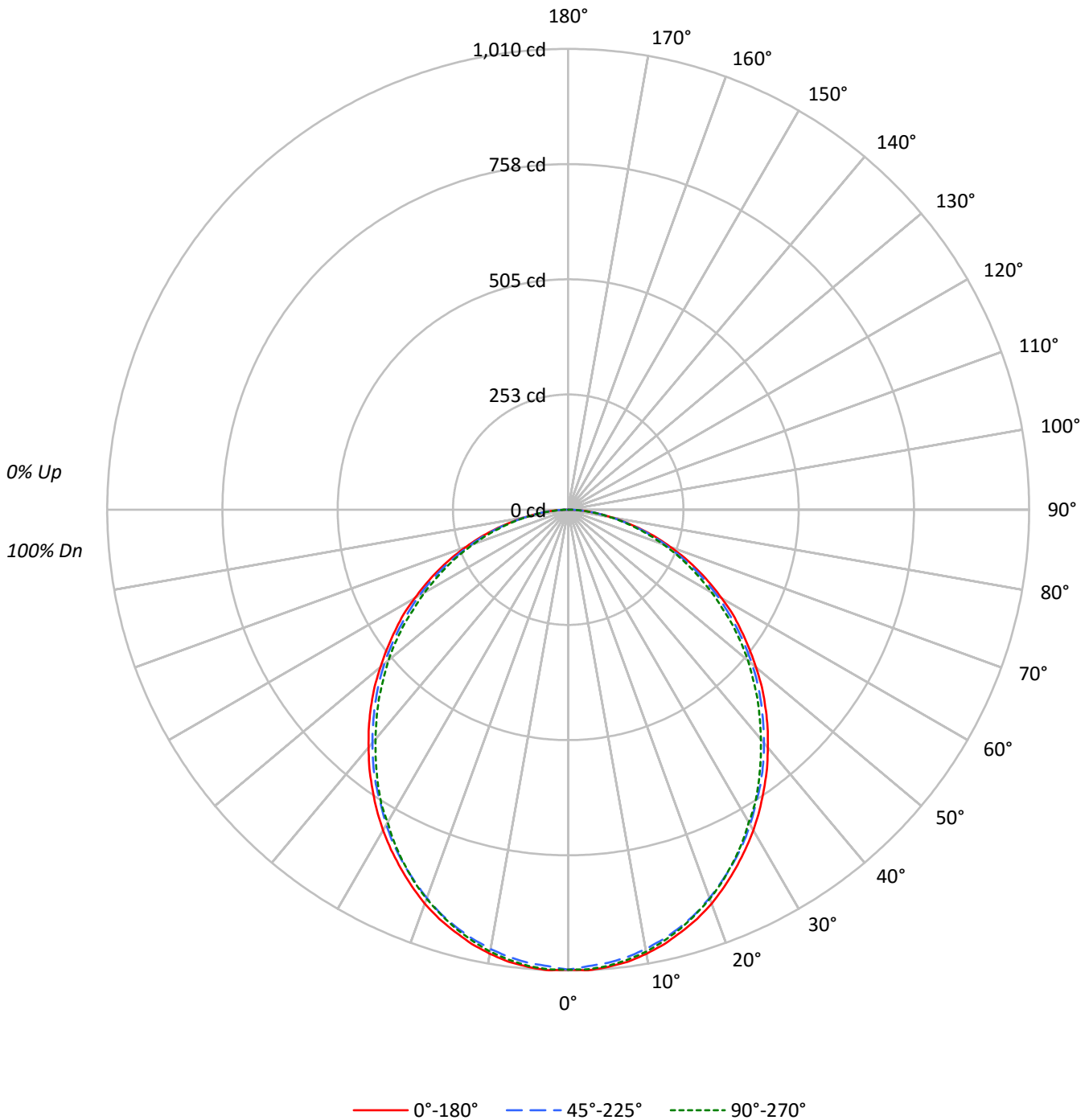
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7165	7165	7165
5°	7177	7113	7161
10°	7132	7057	7099
15°	7048	6972	6993
20°	6948	6847	6864
25°	6804	6705	6694
30°	6659	6543	6495
35°	6488	6373	6315
40°	6314	6190	6094
45°	6140	6007	5895
50°	5938	5815	5684
55°	5737	5581	5435
60°	5520	5362	5173
65°	5262	5075	4901
70°	4933	4750	4597
75°	4550	4407	4204
80°	3966	3937	3843
85°	3441	3441	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.7
10°-20°	268.4	10.3
20°-30°	395.6	15.2
30°-40°	460.8	17.7
40°-50°	461.7	17.7
50°-60°	403.6	15.5
60°-70°	299.6	11.5
70°-80°	169.9	6.5
80°-90°	47.6	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°	759.1	29.2
0°-40°	1219.9	46.9
0°-60°	2085.2	80.1
0°-90°	2602.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1004	997	1004	1004	95
15°	958	956	948	953	950	270
25°	868	865	855	857	854	400
35°	748	743	734	730	728	468
45°	611	610	598	589	586	471
55°	463	462	450	441	439	415
65°	313	311	302	295	291	310
75°	166	163	160	158	153	176
85°	42	42	42	41	40	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.1	1008.1	1008.1	1008.1	1008.1
2.5°	1010.4	1008.9	1001.5	1008.9	1008.1
5°	1005.9	1004.4	997.0	1004.4	1003.7
7.5°	999.3	997.0	988.9	996.3	994.8
10°	988.2	986.7	977.8	983.7	983.7
12.5°	974.9	972.6	963.8	968.9	968.2
15°	957.8	956.4	947.5	952.7	950.4
17.5°	940.1	936.4	928.3	932.7	929.7
20°	918.6	915.7	905.3	909.0	907.5
22.5°	894.2	890.5	880.9	883.1	882.4
25°	867.6	864.6	855.0	857.2	853.6
27.5°	840.2	836.5	827.7	827.7	824.0
30°	811.4	807.7	797.3	797.3	791.4
32.5°	780.3	777.4	764.8	764.1	762.6
35°	747.8	743.3	734.5	730.0	727.8
37.5°	715.2	711.5	701.9	696.0	692.3
40°	680.5	678.3	667.2	662.0	656.8
42.5°	646.5	644.2	632.4	623.5	621.3
45°	610.9	609.5	597.6	588.8	586.5
47.5°	575.4	574.0	562.1	552.5	548.8
50°	537.0	537.0	525.9	516.3	514.1
52.5°	500.0	499.3	488.2	478.6	476.3
55°	463.0	462.3	450.4	440.8	438.6
57.5°	428.3	423.8	413.5	406.1	398.7
60°	388.3	386.1	377.2	367.6	363.9
62.5°	351.3	348.4	339.5	331.4	326.2
65°	312.9	310.7	301.8	295.1	291.4
67.5°	276.6	273.7	264.8	259.6	256.7
70°	237.4	235.2	228.6	221.9	221.2
72.5°	202.7	199.7	196.0	190.1	187.1
75°	165.7	162.7	160.5	157.5	153.1
77.5°	130.2	128.7	127.2	125.0	122.8
80°	96.9	96.9	96.2	94.7	93.9
82.5°	68.8	69.5	67.3	65.8	65.8
85°	42.2	42.2	42.2	40.7	39.9
87.5°	20.7	18.5	18.5	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)