

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: P243750

Luminaire Tested: **S125RDR-H850D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243750
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-H850D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.7 lumens
Efficiency: N/A
Efficacy: 107.8 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

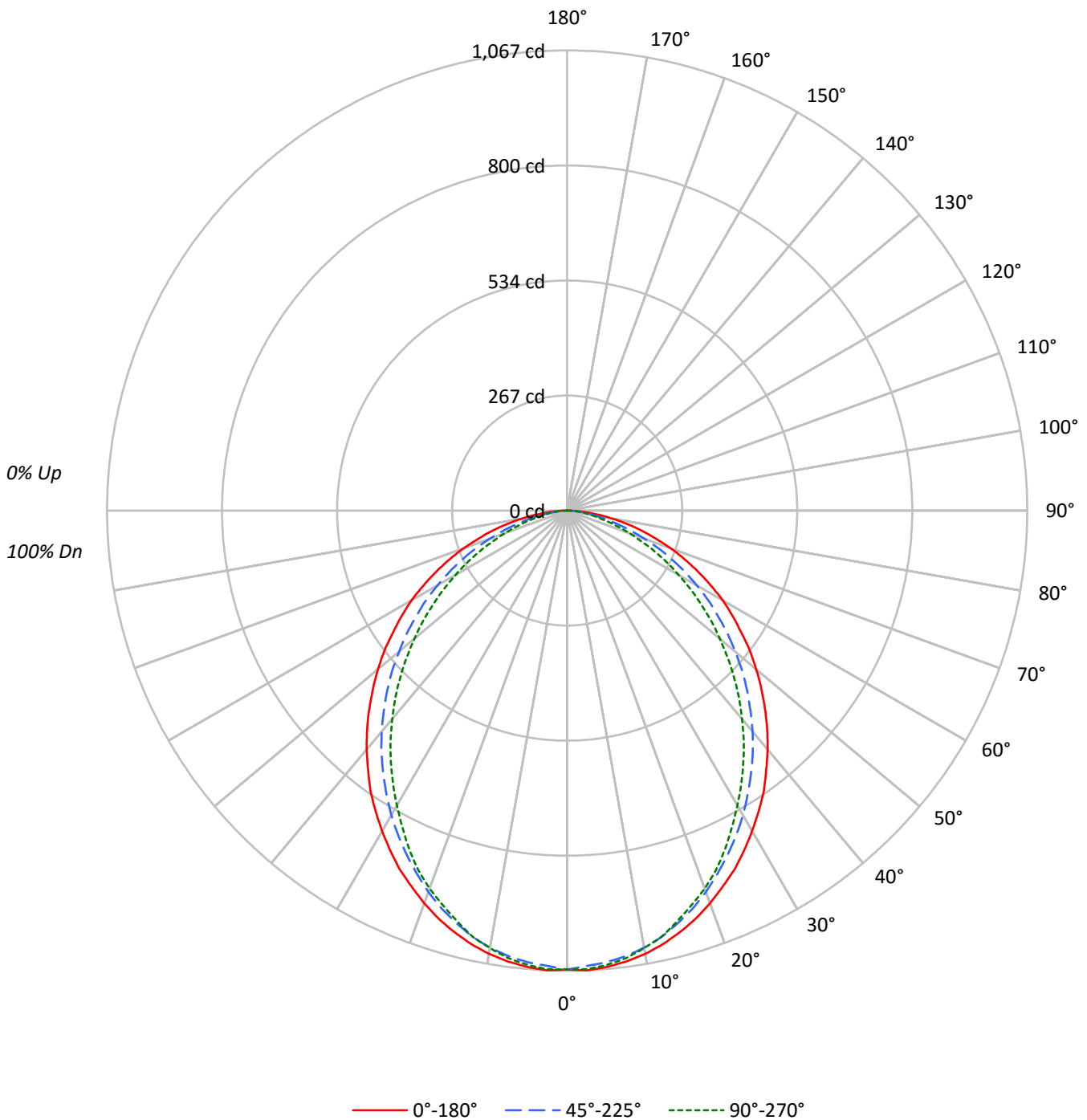
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7564	7564	7564
5°	7576	7500	7543
10°	7532	7428	7433
15°	7444	7287	7254
20°	7329	7116	7053
25°	7199	6907	6794
30°	7041	6691	6478
35°	6895	6453	6182
40°	6710	6208	5848
45°	6519	5930	5501
50°	6329	5623	5109
55°	6103	5282	4698
60°	5919	4934	4253
65°	5632	4519	3764
70°	5316	3955	3211
75°	4891	3304	2614
80°	4298	2554	2149
85°	3661	2112	1990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.9
10°-20°	280.8	11.0
20°-30°	408.6	16.1
30°-40°	467.9	18.4
40°-50°	457.8	18.0
50°-60°	386.6	15.2
60°-70°	270.6	10.6
70°-80°	137.4	5.4
80°-90°	33.8	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°	789.5	31.0
0°-40°	1257.4	49.4
0°-60°	2101.8	82.6
0°-90°	2543.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1062	1060	1051	1058	1057	101
15°	1012	1008	990	990	986	285
25°	918	907	881	872	866	422
35°	795	776	744	722	712	496
45°	649	627	590	559	547	501
55°	492	471	426	392	379	442
65°	335	309	269	235	224	332
75°	178	156	120	100	95	188
85°	45	29	26	24	24	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1067.2	1065.0	1056.6	1064.2	1064.2
5°	1061.9	1059.6	1051.3	1058.1	1057.3
7.5°	1054.3	1052.0	1042.1	1049.0	1046.7
10°	1043.6	1040.6	1029.2	1033.0	1029.9
12.5°	1029.2	1026.1	1012.4	1014.0	1012.4
15°	1011.7	1007.9	990.4	989.6	985.8
17.5°	991.9	986.6	967.5	965.2	959.1
20°	969.0	962.2	940.9	936.3	932.5
22.5°	943.2	936.3	911.2	904.3	902.1
25°	918.0	907.4	880.7	871.6	866.3
27.5°	888.4	876.2	848.8	836.6	827.5
30°	857.9	844.2	815.3	799.3	789.4
32.5°	826.7	810.7	779.5	759.7	751.3
35°	794.7	775.7	743.7	721.6	712.5
37.5°	758.2	739.2	707.2	681.3	672.9
40°	723.2	703.4	669.1	641.0	630.3
42.5°	686.6	666.1	628.8	599.1	590.0
45°	648.6	627.3	590.0	558.7	547.3
47.5°	610.5	589.2	550.4	519.2	504.7
50°	572.4	549.6	508.5	476.5	462.1
52.5°	534.4	509.3	468.9	434.7	421.7
55°	492.5	471.2	426.3	392.0	379.1
57.5°	455.2	431.6	389.0	354.0	339.5
60°	416.4	390.5	347.1	312.9	299.2
62.5°	375.3	349.4	307.5	273.3	261.1
65°	334.9	309.1	268.7	235.2	223.8
67.5°	294.6	270.2	229.9	198.7	185.7
70°	255.8	230.7	190.3	162.1	154.5
72.5°	214.7	194.9	154.5	129.4	123.3
75°	178.1	156.1	120.3	100.5	95.2
77.5°	140.8	119.5	89.1	75.4	70.8
80°	105.0	86.8	62.4	54.0	52.5
82.5°	72.3	54.8	41.1	39.6	38.8
85°	44.9	28.9	25.9	24.4	24.4
87.5°	19.0	12.2	12.2	11.4	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)