

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: P243748

Luminaire Tested: **S125RDR-H375D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243748
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-H375D930-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: 1140.5 lumens
Efficiency: N/A
Efficacy: 101.8 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

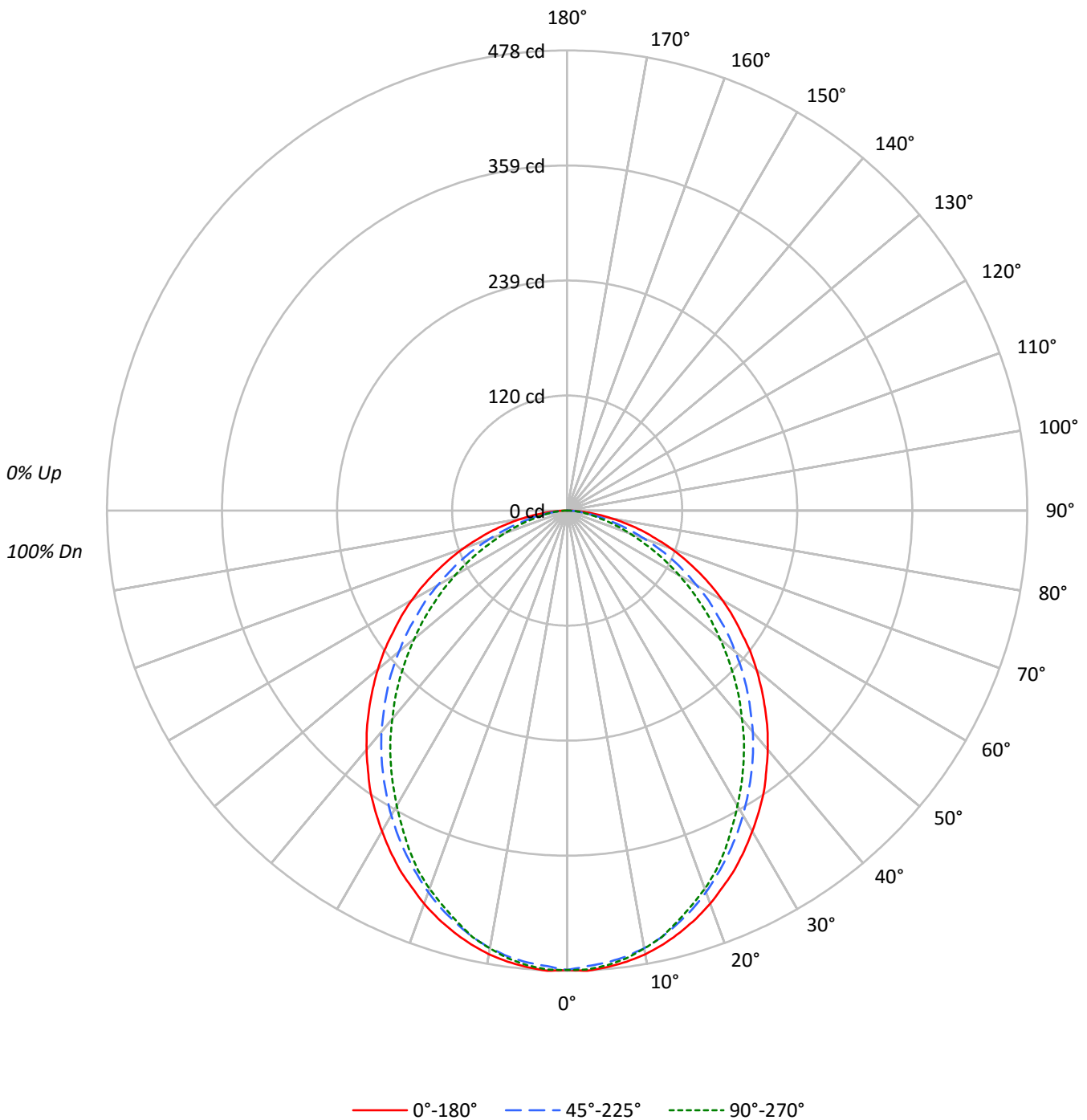
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3392	3392	3392
5°	3397	3362	3382
10°	3377	3331	3333
15°	3338	3267	3252
20°	3286	3191	3162
25°	3228	3097	3046
30°	3157	3000	2904
35°	3091	2894	2772
40°	3008	2783	2622
45°	2923	2659	2467
50°	2838	2521	2291
55°	2736	2368	2107
60°	2654	2212	1906
65°	2526	2026	1687
70°	2384	1773	1440
75°	2194	1480	1173
80°	1928	1146	966
85°	1639	946	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.9
10°-20°	125.9	11.0
20°-30°	183.2	16.1
30°-40°	209.8	18.4
40°-50°	205.3	18.0
50°-60°	173.3	15.2
60°-70°	121.4	10.6
70°-80°	61.6	5.4
80°-90°	15.2	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°	354.0	31.0
0°-40°	563.8	49.4
0°-60°	942.4	82.6
0°-90°	1140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	476	475	471	474	474	45
15°	454	452	444	444	442	128
25°	412	407	395	391	388	189
35°	356	348	334	324	320	222
45°	291	281	264	250	245	224
55°	221	211	191	176	170	198
65°	150	139	120	106	100	149
75°	80	70	54	45	43	84
85°	20	13	12	11	11	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.2	477.2	477.2	477.2	477.2
2.5°	478.5	477.5	473.7	477.2	477.2
5°	476.1	475.1	471.3	474.4	474.1
7.5°	472.7	471.7	467.3	470.3	469.3
10°	467.9	466.6	461.5	463.2	461.8
12.5°	461.5	460.1	453.9	454.6	453.9
15°	453.6	451.9	444.0	443.7	442.0
17.5°	444.7	442.3	433.8	432.8	430.1
20°	434.5	431.4	421.9	419.8	418.1
22.5°	422.9	419.8	408.5	405.5	404.5
25°	411.6	406.8	394.9	390.8	388.4
27.5°	398.3	392.8	380.6	375.1	371.0
30°	384.7	378.5	365.5	358.4	353.9
32.5°	370.7	363.5	349.5	340.6	336.9
35°	356.3	347.8	333.5	323.6	319.5
37.5°	339.9	331.4	317.1	305.5	301.7
40°	324.2	315.4	300.0	287.4	282.6
42.5°	307.9	298.6	281.9	268.6	264.5
45°	290.8	281.2	264.5	250.5	245.4
47.5°	273.7	264.2	246.8	232.8	226.3
50°	256.7	246.4	228.0	213.7	207.2
52.5°	239.6	228.3	210.2	194.9	189.1
55°	220.8	211.3	191.1	175.8	170.0
57.5°	204.1	193.5	174.4	158.7	152.2
60°	186.7	175.1	155.6	140.3	134.1
62.5°	168.3	156.7	137.9	122.5	117.1
65°	150.2	138.6	120.5	105.5	100.3
67.5°	132.1	121.2	103.1	89.1	83.3
70°	114.7	103.4	85.3	72.7	69.3
72.5°	96.2	87.4	69.3	58.0	55.3
75°	79.9	70.0	53.9	45.1	42.7
77.5°	63.1	53.6	39.9	33.8	31.7
80°	47.1	38.9	28.0	24.2	23.6
82.5°	32.4	24.6	18.4	17.7	17.4
85°	20.1	13.0	11.6	10.9	10.9
87.5°	8.5	5.5	5.5	5.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)