

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: P243645

Luminaire Tested: **S125DR-H375D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243645
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-H375D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 1200.9 lumens
Efficiency: N/A
Efficacy: 107.2 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

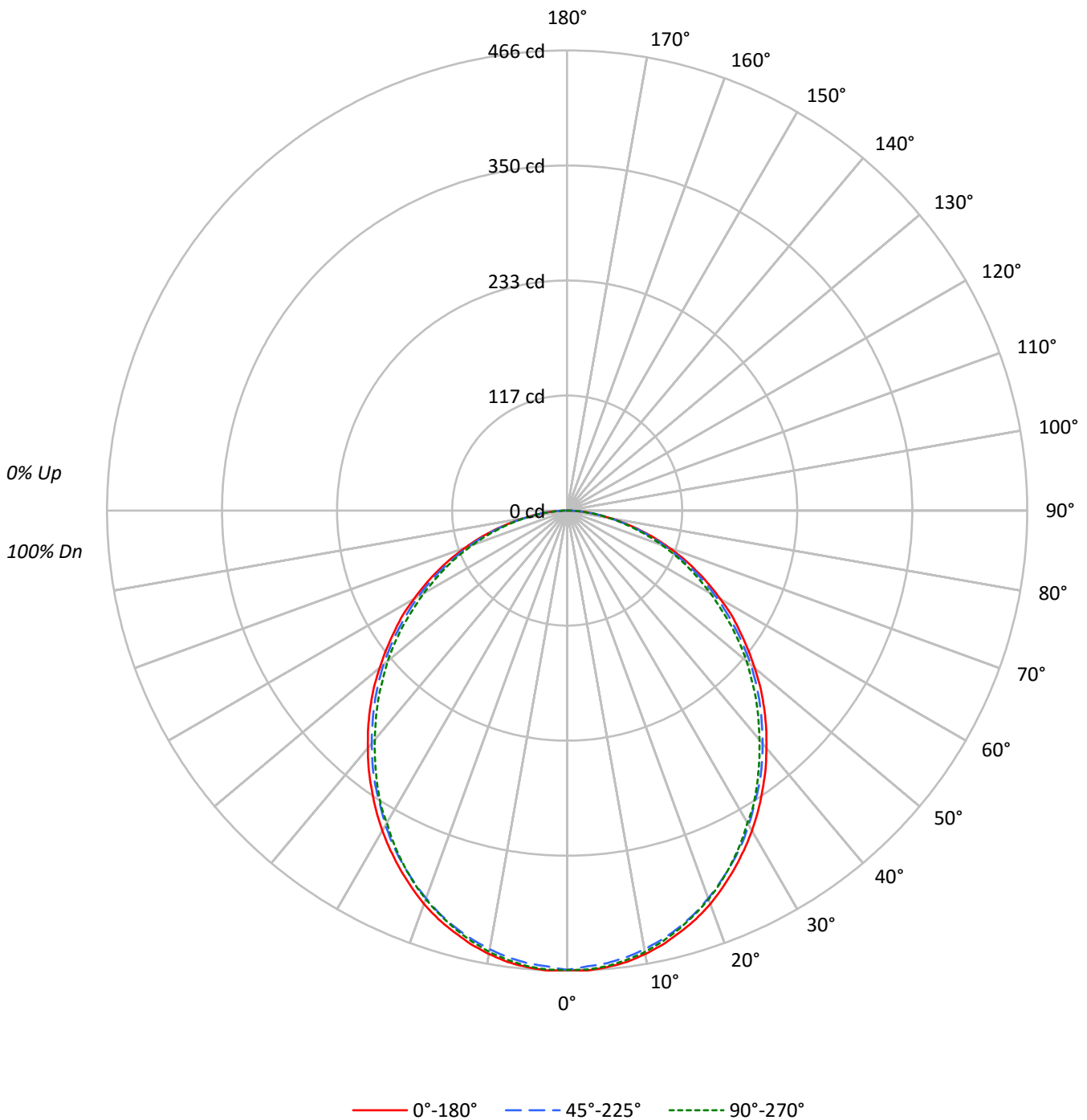
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3306	3306	3306
5°	3312	3283	3305
10°	3291	3256	3276
15°	3252	3217	3227
20°	3206	3160	3168
25°	3140	3094	3089
30°	3073	3019	2997
35°	2994	2940	2914
40°	2913	2857	2812
45°	2833	2772	2721
50°	2740	2684	2623
55°	2648	2576	2508
60°	2547	2475	2387
65°	2428	2343	2262
70°	2278	2192	2122
75°	2101	2035	1941
80°	1830	1817	1772
85°	1590	1590	1500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	3.7
10°-20°	123.8	10.3
20°-30°	182.6	15.2
30°-40°	212.6	17.7
40°-50°	213.1	17.7
50°-60°	186.3	15.5
60°-70°	138.2	11.5
70°-80°	78.4	6.5
80°-90°	22.0	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°	350.3	29.2
0°-40°	562.9	46.9
0°-60°	962.2	80.1
0°-90°	1200.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	464	464	460	464	463	44
15°	442	441	437	440	439	125
25°	400	399	395	396	394	184
35°	345	343	339	337	336	216
45°	282	281	276	272	271	217
55°	214	213	208	203	202	191
65°	144	143	139	136	134	143
75°	76	75	74	73	71	81
85°	20	20	20	19	18	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.2	465.2	465.2	465.2	465.2
2.5°	466.2	465.5	462.1	465.5	465.2
5°	464.2	463.5	460.1	463.5	463.2
7.5°	461.1	460.1	456.3	459.7	459.1
10°	456.0	455.3	451.2	453.9	453.9
12.5°	449.8	448.8	444.7	447.1	446.8
15°	442.0	441.3	437.2	439.6	438.6
17.5°	433.8	432.1	428.3	430.4	429.0
20°	423.9	422.5	417.8	419.5	418.8
22.5°	412.6	410.9	406.5	407.5	407.2
25°	400.4	399.0	394.6	395.6	393.9
27.5°	387.7	386.0	381.9	381.9	380.2
30°	374.4	372.7	367.9	367.9	365.2
32.5°	360.1	358.7	352.9	352.6	351.9
35°	345.1	343.0	338.9	336.9	335.8
37.5°	330.0	328.3	323.9	321.2	319.5
40°	314.0	313.0	307.9	305.5	303.1
42.5°	298.3	297.3	291.8	287.7	286.7
45°	281.9	281.2	275.8	271.7	270.7
47.5°	265.5	264.9	259.4	255.0	253.3
50°	247.8	247.8	242.7	238.2	237.2
52.5°	230.7	230.4	225.3	220.8	219.8
55°	213.7	213.3	207.9	203.4	202.4
57.5°	197.6	195.6	190.8	187.4	184.0
60°	179.2	178.2	174.1	169.6	167.9
62.5°	162.1	160.8	156.7	152.9	150.5
65°	144.4	143.4	139.3	136.2	134.5
67.5°	127.7	126.3	122.2	119.8	118.4
70°	109.6	108.5	105.5	102.4	102.1
72.5°	93.5	92.2	90.4	87.7	86.4
75°	76.5	75.1	74.1	72.7	70.7
77.5°	60.1	59.4	58.7	57.7	56.7
80°	44.7	44.7	44.4	43.7	43.3
82.5°	31.7	32.1	31.1	30.4	30.4
85°	19.5	19.5	19.5	18.8	18.4
87.5°	9.6	8.5	8.5	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)