

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: P242771

Luminaire Tested: **S125DR-S375D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S375D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.9 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

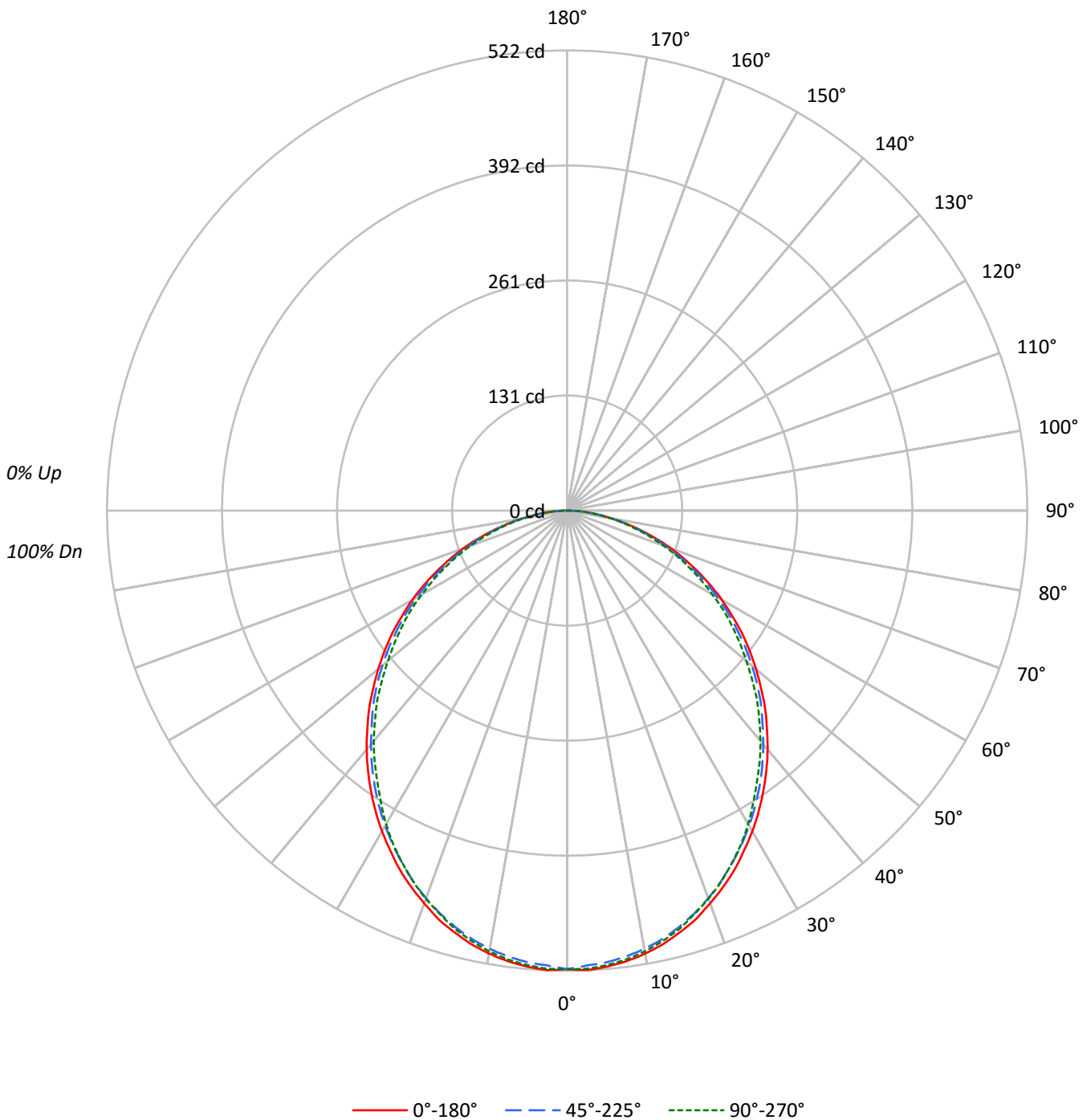
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3697	3697	3697
5°	3706	3670	3694
10°	3683	3645	3665
15°	3643	3600	3616
20°	3586	3539	3545
25°	3524	3466	3463
30°	3449	3388	3371
35°	3367	3303	3256
40°	3283	3211	3166
45°	3193	3127	3065
50°	3094	3026	2935
55°	2999	2912	2830
60°	2884	2796	2697
65°	2748	2657	2568
70°	2616	2498	2413
75°	2384	2307	2227
80°	2124	2087	2038
85°	1843	1876	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.6
10°-20°	138.6	10.2
20°-30°	204.7	15.1
30°-40°	238.8	17.6
40°-50°	239.9	17.7
50°-60°	210.5	15.6
60°-70°	156.8	11.6
70°-80°	89.6	6.6
80°-90°	25.8	1.9
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°	392.4	29.0
0°-40°	631.2	46.6
0°-60°	1081.6	79.9
0°-90°	1353.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	518	514	518	518	49
15°	495	494	489	491	491	140
25°	449	447	442	443	442	207
35°	388	386	381	379	375	243
45°	318	316	311	306	305	245
55°	242	241	235	231	228	216
65°	163	163	158	154	153	162
75°	87	86	84	83	81	92
85°	23	23	23	23	22	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.2	520.2	520.2	520.2	520.2
2.5°	521.8	520.6	516.5	520.6	520.2
5°	519.4	518.5	514.4	518.1	517.7
7.5°	515.7	514.8	510.3	514.0	513.6
10°	510.3	509.5	505.0	508.2	507.8
12.5°	503.7	502.1	498.0	500.4	500.4
15°	495.1	493.8	489.3	491.4	491.4
17.5°	486.0	484.0	479.4	481.9	479.9
20°	474.1	473.3	467.9	470.8	468.7
22.5°	462.2	460.5	455.6	457.2	456.0
25°	449.4	447.3	442.0	442.8	441.6
27.5°	434.6	433.3	428.0	428.4	427.2
30°	420.2	418.9	412.8	411.9	410.7
32.5°	404.5	402.5	397.1	395.5	393.0
35°	388.1	386.4	380.7	378.6	375.3
37.5°	371.2	369.1	363.8	360.9	358.9
40°	353.9	351.9	346.1	342.4	341.2
42.5°	335.4	333.8	328.0	324.7	322.6
45°	317.7	316.1	311.1	306.2	304.9
47.5°	298.4	298.8	292.6	287.7	284.8
50°	279.8	278.6	273.7	268.3	265.4
52.5°	260.9	260.1	254.7	250.2	246.9
55°	242.0	240.7	235.0	231.3	228.4
57.5°	221.8	221.4	216.5	211.5	210.3
60°	202.9	201.2	196.7	192.6	189.7
62.5°	183.1	181.9	178.2	173.7	171.6
65°	163.4	162.6	158.0	154.3	152.7
67.5°	144.0	142.4	139.1	135.8	135.0
70°	125.9	123.9	120.2	117.7	116.1
72.5°	106.2	104.9	102.9	100.0	98.4
75°	86.8	86.0	84.0	82.7	81.1
77.5°	68.7	68.3	67.1	66.3	65.0
80°	51.9	51.9	51.0	50.6	49.8
82.5°	37.0	36.2	36.2	35.4	35.4
85°	22.6	23.0	23.0	22.6	21.8
87.5°	11.1	11.1	10.7	10.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)