

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: P243631

Luminaire Tested: **S125DR-H375D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243631
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-H375D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1388.3 lumens
Efficiency: N/A
Efficacy: 124.0 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

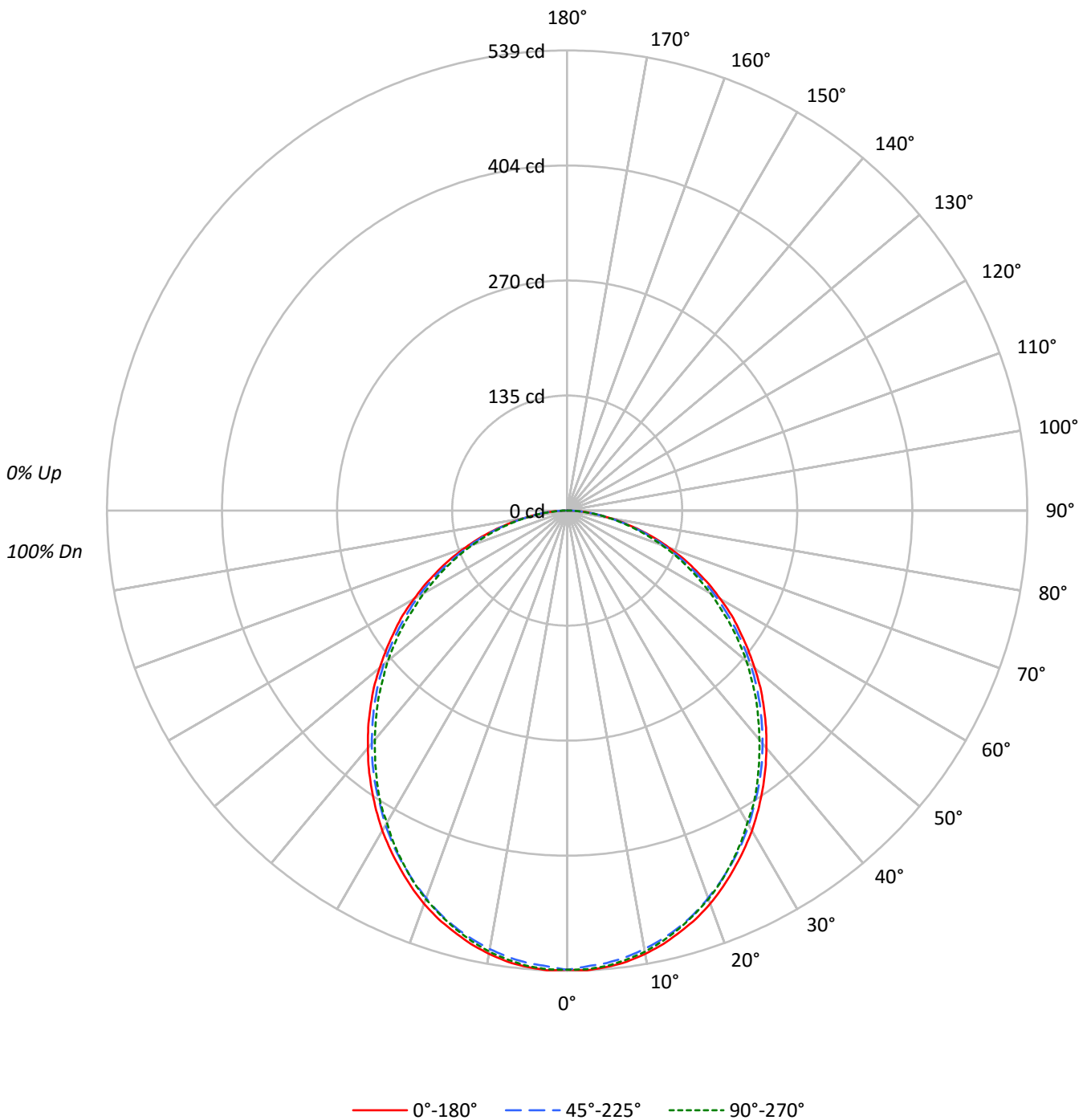
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3822	3822	3822
5°	3828	3795	3820
10°	3805	3764	3787
15°	3760	3720	3731
20°	3707	3653	3661
25°	3629	3577	3571
30°	3553	3491	3465
35°	3461	3399	3369
40°	3368	3302	3251
45°	3276	3204	3145
50°	3168	3102	3032
55°	3061	2978	2900
60°	2945	2860	2759
65°	2807	2708	2615
70°	2633	2533	2452
75°	2428	2351	2244
80°	2116	2100	2051
85°	1835	1835	1737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.7
10°-20°	143.2	10.3
20°-30°	211.1	15.2
30°-40°	245.8	17.7
40°-50°	246.3	17.7
50°-60°	215.3	15.5
60°-70°	159.8	11.5
70°-80°	90.6	6.5
80°-90°	25.4	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°	405.0	29.2
0°-40°	650.8	46.9
0°-60°	1112.4	80.1
0°-90°	1388.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	537	536	532	536	535	51
15°	511	510	506	508	507	144
25°	463	461	456	457	455	213
35°	399	397	392	389	388	250
45°	326	325	319	314	313	251
55°	247	247	240	235	234	221
65°	167	166	161	157	156	165
75°	88	87	86	84	82	94
85°	22	22	22	22	21	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.8	537.8	537.8	537.8	537.8
2.5°	539.0	538.2	534.3	538.2	537.8
5°	536.6	535.8	531.9	535.8	535.4
7.5°	533.1	531.9	527.6	531.5	530.7
10°	527.2	526.4	521.6	524.8	524.8
12.5°	520.1	518.9	514.1	516.9	516.5
15°	511.0	510.2	505.5	508.2	507.0
17.5°	501.5	499.5	495.2	497.6	496.0
20°	490.1	488.5	483.0	484.9	484.1
22.5°	477.0	475.1	469.9	471.1	470.7
25°	462.8	461.3	456.1	457.3	455.3
27.5°	448.2	446.3	441.5	441.5	439.6
30°	432.9	430.9	425.4	425.4	422.2
32.5°	416.3	414.7	408.0	407.6	406.8
35°	398.9	396.6	391.8	389.4	388.3
37.5°	381.6	379.6	374.5	371.3	369.3
40°	363.0	361.8	355.9	353.1	350.4
42.5°	344.9	343.7	337.4	332.6	331.4
45°	325.9	325.1	318.8	314.1	312.9
47.5°	307.0	306.2	299.9	294.7	292.8
50°	286.5	286.5	280.5	275.4	274.2
52.5°	266.7	266.3	260.4	255.3	254.1
55°	247.0	246.6	240.3	235.2	234.0
57.5°	228.5	226.1	220.6	216.6	212.7
60°	207.2	206.0	201.2	196.1	194.1
62.5°	187.4	185.8	181.1	176.8	174.0
65°	166.9	165.7	161.0	157.4	155.5
67.5°	147.6	146.0	141.3	138.5	136.9
70°	126.7	125.5	121.9	118.4	118.0
72.5°	108.1	106.5	104.6	101.4	99.8
75°	88.4	86.8	85.6	84.0	81.7
77.5°	69.4	68.7	67.9	66.7	65.5
80°	51.7	51.7	51.3	50.5	50.1
82.5°	36.7	37.1	35.9	35.1	35.1
85°	22.5	22.5	22.5	21.7	21.3
87.5°	11.0	9.9	9.9	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)