

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: P243636

Luminaire Tested: **S125DR-H375D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243636
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-H375D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1472.9 lumens
Efficiency: N/A
Efficacy: 131.5 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

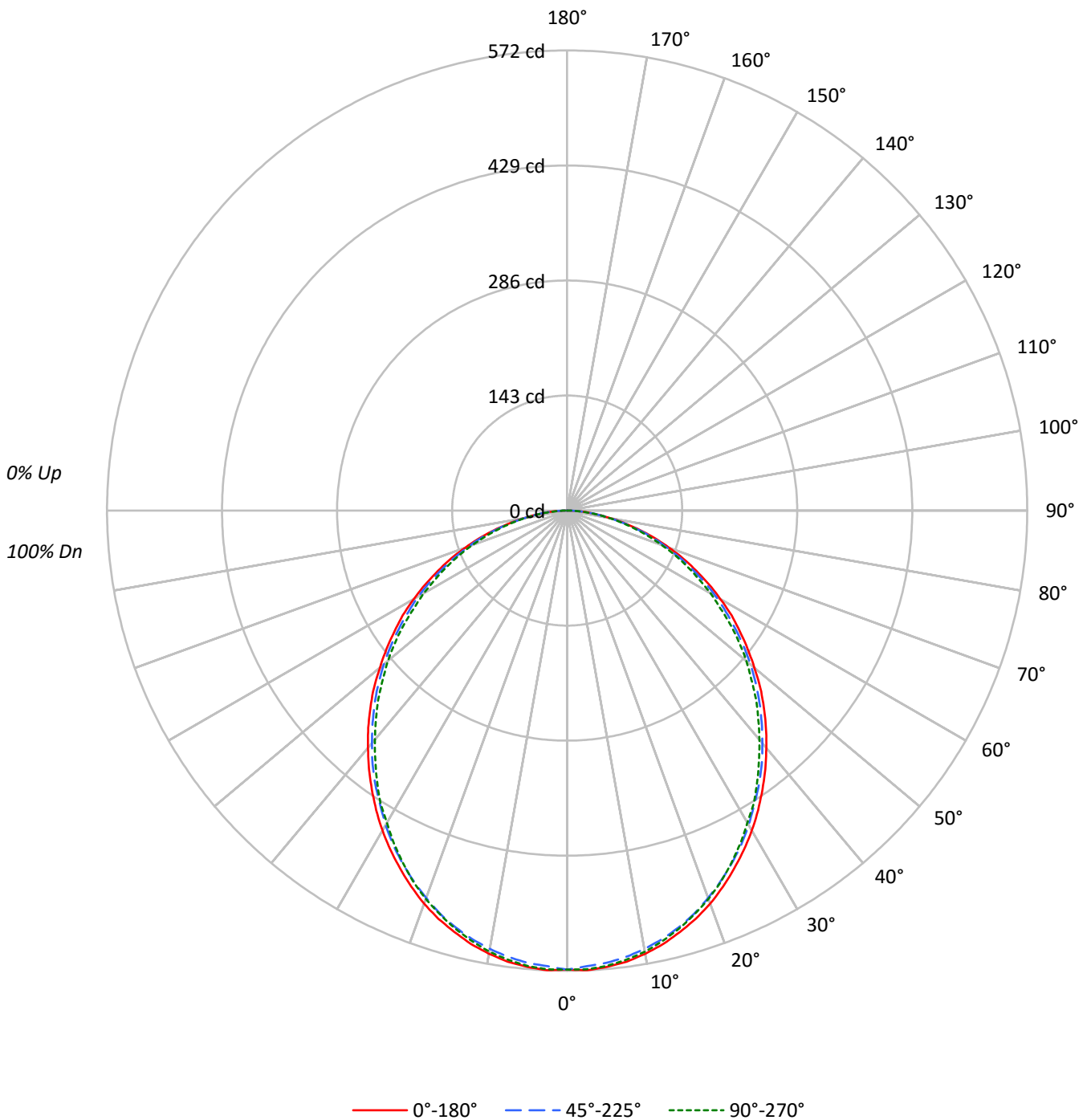
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4055	4055	4055
5°	4062	4026	4053
10°	4036	3994	4018
15°	3989	3946	3958
20°	3932	3876	3885
25°	3851	3795	3789
30°	3769	3704	3676
35°	3672	3607	3574
40°	3573	3503	3449
45°	3476	3400	3337
50°	3360	3291	3216
55°	3248	3159	3076
60°	3124	3035	2928
65°	2978	2872	2773
70°	2793	2689	2602
75°	2576	2493	2381
80°	2243	2227	2177
85°	1949	1949	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.7
10°-20°	151.9	10.3
20°-30°	223.9	15.2
30°-40°	260.8	17.7
40°-50°	261.3	17.7
50°-60°	228.4	15.5
60°-70°	169.5	11.5
70°-80°	96.1	6.5
80°-90°	27.0	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°	429.7	29.2
0°-40°	690.4	46.9
0°-60°	1180.2	80.1
0°-90°	1472.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	569	568	564	568	568	54
15°	542	541	536	539	538	153
25°	491	489	484	485	483	226
35°	423	421	416	413	412	265
45°	346	345	338	333	332	267
55°	262	262	255	250	248	235
65°	177	176	171	167	165	176
75°	94	92	91	89	87	99
85°	24	24	24	23	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.6	570.6	570.6	570.6	570.6
2.5°	571.9	571.0	566.8	571.0	570.6
5°	569.3	568.5	564.3	568.5	568.1
7.5°	565.6	564.3	559.7	563.9	563.1
10°	559.3	558.5	553.4	556.8	556.8
12.5°	551.8	550.5	545.5	548.4	548.0
15°	542.1	541.3	536.3	539.2	537.9
17.5°	532.1	530.0	525.4	527.9	526.2
20°	519.9	518.3	512.4	514.5	513.7
22.5°	506.1	504.0	498.6	499.8	499.4
25°	491.1	489.4	483.9	485.2	483.1
27.5°	475.6	473.5	468.4	468.4	466.4
30°	459.2	457.1	451.3	451.3	447.9
32.5°	441.7	440.0	432.9	432.4	431.6
35°	423.2	420.7	415.7	413.2	411.9
37.5°	404.8	402.7	397.3	393.9	391.8
40°	385.1	383.9	377.6	374.7	371.7
42.5°	365.9	364.6	357.9	352.9	351.7
45°	345.8	345.0	338.3	333.2	332.0
47.5°	325.7	324.9	318.2	312.7	310.6
50°	303.9	303.9	297.6	292.2	290.9
52.5°	283.0	282.6	276.3	270.9	269.6
55°	262.1	261.6	254.9	249.5	248.2
57.5°	242.4	239.9	234.0	229.8	225.6
60°	219.8	218.5	213.5	208.1	206.0
62.5°	198.9	197.2	192.2	187.5	184.6
65°	177.1	175.8	170.8	167.0	164.9
67.5°	156.6	154.9	149.9	146.9	145.3
70°	134.4	133.1	129.4	125.6	125.2
72.5°	114.7	113.0	110.9	107.6	105.9
75°	93.8	92.1	90.8	89.2	86.7
77.5°	73.7	72.8	72.0	70.7	69.5
80°	54.8	54.8	54.4	53.6	53.2
82.5°	38.9	39.4	38.1	37.3	37.3
85°	23.9	23.9	23.9	23.0	22.6
87.5°	11.7	10.5	10.5	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)