

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: P243640

Luminaire Tested: **S125DR-H375D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243640
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-H375D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.4 lumens
Efficiency: N/A
Efficacy: 132.8 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

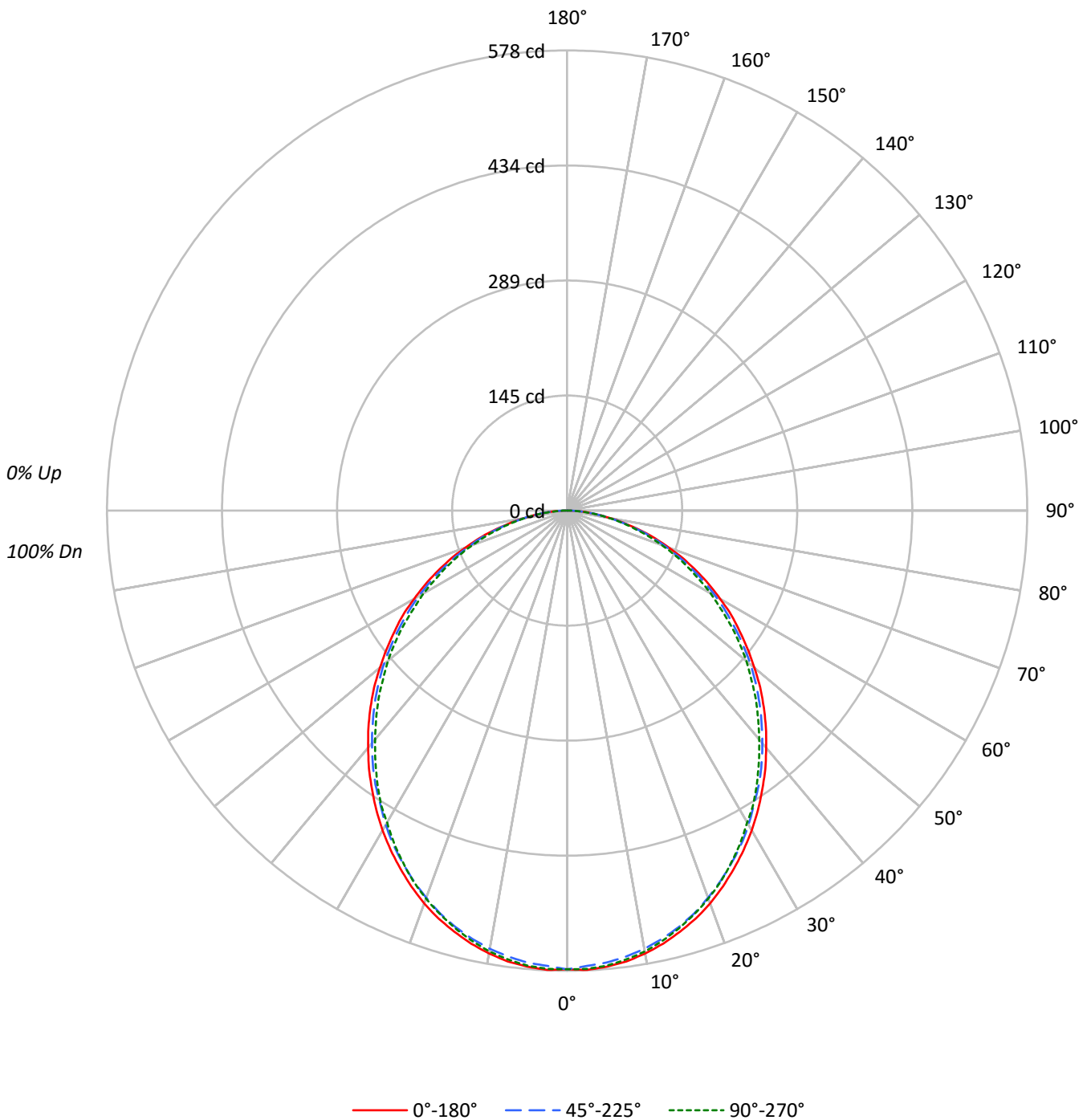
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4095	4095	4095
5°	4102	4066	4093
10°	4076	4034	4058
15°	4029	3985	3997
20°	3972	3914	3923
25°	3889	3832	3826
30°	3806	3740	3713
35°	3708	3642	3609
40°	3608	3538	3483
45°	3510	3434	3369
50°	3393	3324	3249
55°	3279	3191	3106
60°	3154	3065	2957
65°	3007	2901	2802
70°	2820	2714	2627
75°	2601	2518	2403
80°	2267	2251	2198
85°	1965	1965	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.7
10°-20°	153.4	10.3
20°-30°	226.1	15.2
30°-40°	263.4	17.7
40°-50°	263.9	17.7
50°-60°	230.7	15.5
60°-70°	171.2	11.5
70°-80°	97.1	6.5
80°-90°	27.2	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°	433.9	29.2
0°-40°	697.3	46.9
0°-60°	1191.9	80.1
0°-90°	1487.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	574	570	574	574	55
15°	548	547	542	544	543	154
25°	496	494	489	490	488	228
35°	427	425	420	417	416	267
45°	349	348	342	336	335	269
55°	265	264	258	252	251	237
65°	179	178	172	169	167	177
75°	95	93	92	90	88	100
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°	576.2	576.2	576.2	576.2	576.2
2.5°	577.5	576.6	572.4	576.6	576.2
5°	575.0	574.1	569.9	574.1	573.7
7.5°	571.2	569.9	565.2	569.5	568.6
10°	564.8	564.0	558.9	562.3	562.3
12.5°	557.2	555.9	550.9	553.8	553.4
15°	547.5	546.6	541.6	544.5	543.2
17.5°	537.3	535.2	530.6	533.1	531.4
20°	525.1	523.4	517.5	519.6	518.7
22.5°	511.1	509.0	503.5	504.8	504.4
25°	495.9	494.2	488.7	490.0	487.9
27.5°	480.3	478.1	473.1	473.1	471.0
30°	463.8	461.7	455.7	455.7	452.4
32.5°	446.0	444.3	437.1	436.7	435.9
35°	427.4	424.9	419.8	417.3	416.0
37.5°	408.8	406.7	401.2	397.8	395.7
40°	388.9	387.7	381.3	378.4	375.4
42.5°	369.5	368.2	361.5	356.4	355.1
45°	349.2	348.4	341.6	336.5	335.2
47.5°	328.9	328.1	321.3	315.8	313.7
50°	306.9	306.9	300.6	295.1	293.8
52.5°	285.8	285.4	279.0	273.5	272.3
55°	264.6	264.2	257.5	252.0	250.7
57.5°	244.8	242.2	236.3	232.1	227.9
60°	221.9	220.7	215.6	210.1	208.0
62.5°	200.8	199.1	194.0	189.4	186.4
65°	178.8	177.6	172.5	168.7	166.6
67.5°	158.1	156.4	151.3	148.4	146.7
70°	135.7	134.4	130.6	126.8	126.4
72.5°	115.8	114.1	112.0	108.6	107.0
75°	94.7	93.0	91.7	90.0	87.5
77.5°	74.4	73.6	72.7	71.4	70.2
80°	55.4	55.4	55.0	54.1	53.7
82.5°	39.3	39.7	38.5	37.6	37.6
85°	24.1	24.1	24.1	23.3	22.8
87.5°	11.8	10.6	10.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)