

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: P242780

Luminaire Tested: **S125DR-S375D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242780
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-S375D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1450.6 lumens
Efficiency: N/A
Efficacy: 125.1 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

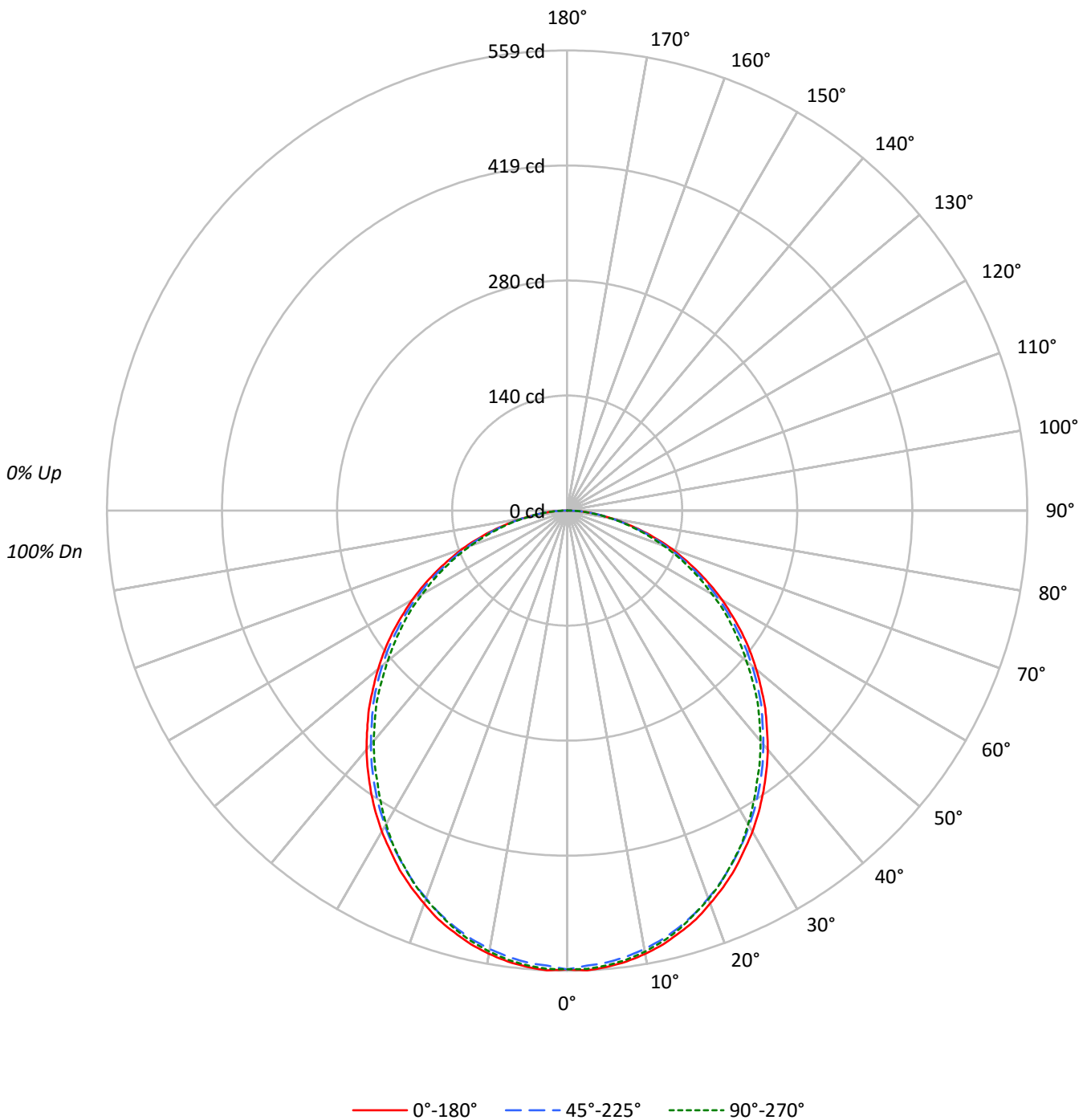
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3961	3961	3961
5°	3970	3933	3958
10°	3946	3904	3927
15°	3903	3858	3874
20°	3842	3792	3798
25°	3776	3714	3710
30°	3695	3630	3611
35°	3608	3539	3489
40°	3518	3440	3391
45°	3421	3350	3284
50°	3315	3242	3145
55°	3213	3120	3032
60°	3090	2996	2890
65°	2943	2847	2751
70°	2803	2677	2583
75°	2554	2469	2386
80°	2276	2239	2186
85°	1982	2014	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.6
10°-20°	148.6	10.2
20°-30°	219.3	15.1
30°-40°	255.9	17.6
40°-50°	257.0	17.7
50°-60°	225.6	15.6
60°-70°	168.0	11.6
70°-80°	96.0	6.6
80°-90°	27.7	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°	420.5	29.0
0°-40°	676.3	46.6
0°-60°	1158.9	79.9
0°-90°	1450.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	556	556	551	555	555	53
15°	530	529	524	526	526	150
25°	482	479	474	474	473	222
35°	416	414	408	406	402	260
45°	340	339	333	328	327	262
55°	259	258	252	248	245	231
65°	175	174	169	165	164	174
75°	93	92	90	89	87	99
85°	24	25	25	24	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.3	557.3	557.3	557.3	557.3
2.5°	559.1	557.8	553.4	557.8	557.3
5°	556.5	555.6	551.2	555.1	554.7
7.5°	552.5	551.6	546.8	550.7	550.3
10°	546.8	545.9	541.0	544.5	544.1
12.5°	539.7	537.9	533.5	536.2	536.2
15°	530.4	529.1	524.3	526.5	526.5
17.5°	520.7	518.5	513.7	516.3	514.1
20°	508.0	507.1	501.3	504.4	502.2
22.5°	495.2	493.4	488.1	489.9	488.6
25°	481.5	479.3	473.6	474.4	473.1
27.5°	465.6	464.3	458.6	459.0	457.7
30°	450.2	448.9	442.3	441.4	440.0
32.5°	433.4	431.2	425.5	423.7	421.1
35°	415.8	414.0	407.9	405.7	402.1
37.5°	397.7	395.5	389.8	386.7	384.5
40°	379.2	377.0	370.8	366.9	365.5
42.5°	359.4	357.6	351.4	347.9	345.7
45°	340.4	338.6	333.3	328.1	326.7
47.5°	319.7	320.1	313.5	308.2	305.1
50°	299.8	298.5	293.2	287.5	284.4
52.5°	279.6	278.7	272.9	268.1	264.6
55°	259.3	257.9	251.8	247.8	244.7
57.5°	237.7	237.2	231.9	226.6	225.3
60°	217.4	215.6	210.8	206.4	203.3
62.5°	196.2	194.9	190.9	186.1	183.9
65°	175.0	174.2	169.3	165.3	163.6
67.5°	154.3	152.6	149.0	145.5	144.6
70°	134.9	132.7	128.8	126.1	124.3
72.5°	113.8	112.4	110.2	107.1	105.4
75°	93.0	92.2	89.9	88.6	86.9
77.5°	73.6	73.2	71.9	71.0	69.7
80°	55.6	55.6	54.7	54.2	53.4
82.5°	39.7	38.8	38.8	37.9	37.9
85°	24.3	24.7	24.7	24.3	23.4
87.5°	11.9	11.9	11.5	11.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)