

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: P242790

Luminaire Tested: **S125DR-S375D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242790
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-S375D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.8 lumens
Efficiency: N/A
Efficacy: 106.6 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

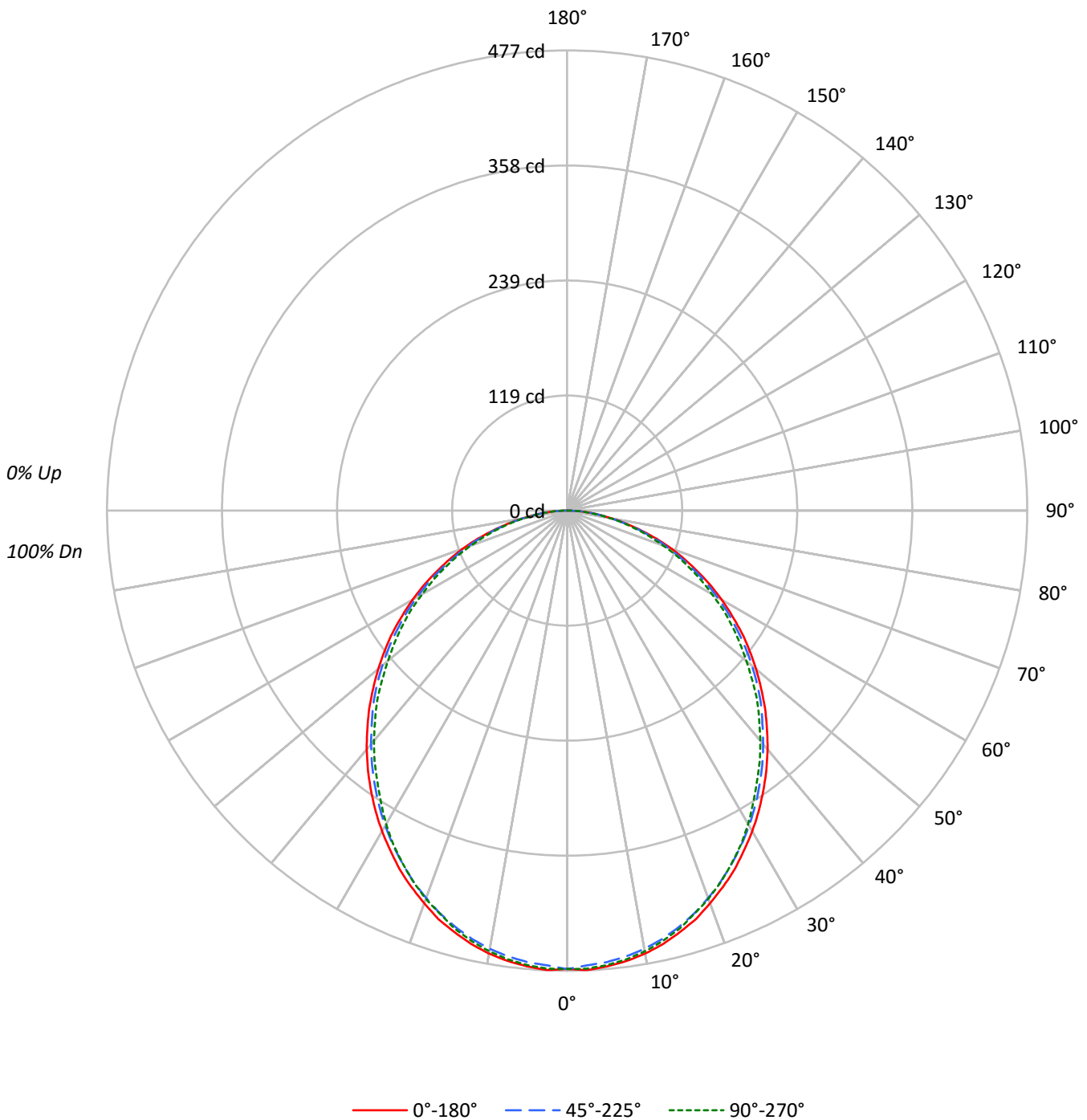
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3377	3377	3377
5°	3385	3352	3374
10°	3365	3329	3348
15°	3327	3289	3303
20°	3276	3233	3239
25°	3219	3167	3163
30°	3150	3095	3079
35°	3076	3017	2975
40°	3000	2934	2891
45°	2917	2857	2800
50°	2826	2764	2681
55°	2738	2660	2585
60°	2634	2554	2463
65°	2509	2428	2346
70°	2390	2282	2203
75°	2178	2106	2035
80°	1940	1907	1862
85°	1688	1721	1623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.6
10°-20°	126.7	10.2
20°-30°	187.0	15.1
30°-40°	218.2	17.6
40°-50°	219.1	17.7
50°-60°	192.3	15.6
60°-70°	143.3	11.6
70°-80°	81.8	6.6
80°-90°	23.6	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°	358.5	29.0
0°-40°	576.6	46.6
0°-60°	988.1	79.9
0°-90°	1236.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	474	474	470	473	473	45
15°	452	451	447	449	449	128
25°	410	409	404	404	403	189
35°	354	353	348	346	343	222
45°	290	289	284	280	279	224
55°	221	220	215	211	209	197
65°	149	148	144	141	140	148
75°	79	79	77	76	74	84
85°	21	21	21	21	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.2	475.2	475.2	475.2	475.2
2.5°	476.7	475.6	471.8	475.6	475.2
5°	474.4	473.7	469.9	473.3	472.9
7.5°	471.0	470.3	466.2	469.5	469.2
10°	466.2	465.4	461.3	464.3	463.9
12.5°	460.1	458.6	454.9	457.1	457.1
15°	452.2	451.1	447.0	448.9	448.9
17.5°	444.0	442.1	438.0	440.2	438.3
20°	433.1	432.3	427.4	430.1	428.2
22.5°	422.2	420.7	416.2	417.7	416.5
25°	410.5	408.6	403.8	404.5	403.4
27.5°	397.0	395.9	391.0	391.3	390.2
30°	383.8	382.7	377.1	376.3	375.2
32.5°	369.5	367.7	362.8	361.3	359.0
35°	354.5	353.0	347.7	345.9	342.9
37.5°	339.1	337.2	332.3	329.7	327.8
40°	323.3	321.4	316.2	312.8	311.6
42.5°	306.4	304.9	299.6	296.6	294.7
45°	290.2	288.7	284.2	279.7	278.6
47.5°	272.6	272.9	267.3	262.8	260.1
50°	255.6	254.5	250.0	245.1	242.5
52.5°	238.3	237.6	232.7	228.6	225.6
55°	221.0	219.9	214.7	211.3	208.6
57.5°	202.6	202.3	197.7	193.2	192.1
60°	185.3	183.8	179.7	175.9	173.3
62.5°	167.3	166.2	162.8	158.6	156.8
65°	149.2	148.5	144.4	141.0	139.5
67.5°	131.6	130.1	127.1	124.1	123.3
70°	115.0	113.2	109.8	107.5	106.0
72.5°	97.0	95.9	94.0	91.4	89.8
75°	79.3	78.6	76.7	75.6	74.1
77.5°	62.8	62.4	61.3	60.5	59.4
80°	47.4	47.4	46.6	46.2	45.5
82.5°	33.8	33.1	33.1	32.3	32.3
85°	20.7	21.1	21.1	20.7	19.9
87.5°	10.2	10.2	9.8	9.8	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)