

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: P242893

Luminaire Tested: **S125RDR-S375D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED 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: 1175.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

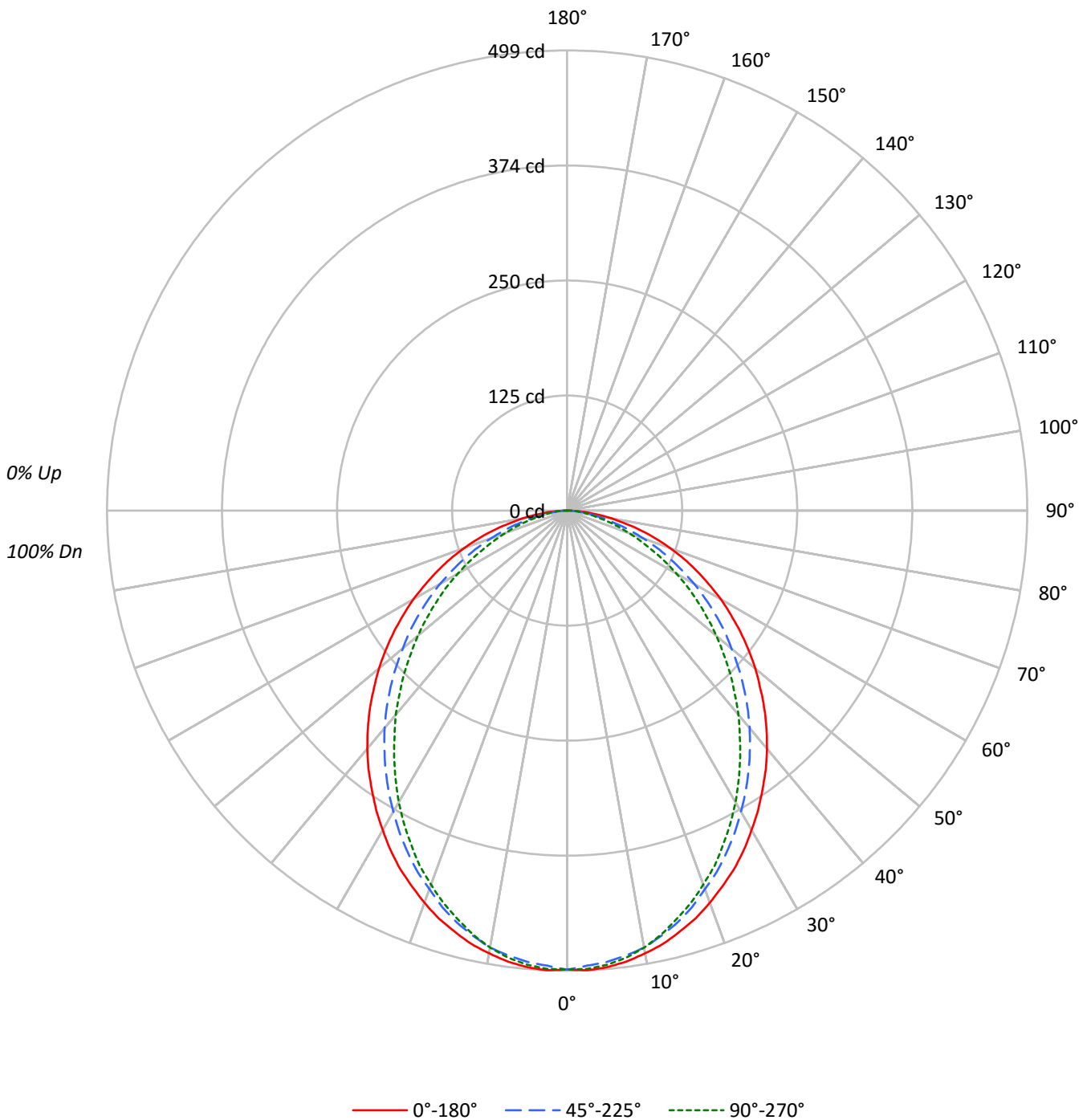
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3537	3537	3537
5°	3546	3505	3527
10°	3519	3473	3473
15°	3477	3402	3374
20°	3423	3304	3264
25°	3361	3207	3137
30°	3283	3095	2996
35°	3203	2978	2838
40°	3129	2857	2682
45°	3038	2721	2513
50°	2947	2573	2336
55°	2841	2431	2147
60°	2736	2260	1945
65°	2612	2062	1714
70°	2469	1812	1477
75°	2271	1527	1227
80°	2001	1199	1031
85°	1688	979	921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	4.0
10°-20°	130.9	11.1
20°-30°	189.8	16.1
30°-40°	216.3	18.4
40°-50°	210.8	17.9
50°-60°	177.4	15.1
60°-70°	124.3	10.6
70°-80°	63.7	5.4
80°-90°	15.9	1.4
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°	367.6	31.3
0°-40°	583.8	49.6
0°-60°	972.0	82.7
0°-90°	1175.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	497	496	491	495	494	47
15°	472	470	462	462	459	133
25°	429	423	409	404	400	197
35°	369	360	343	332	327	231
45°	302	291	271	256	250	233
55°	229	217	196	179	173	205
65°	155	142	123	108	102	154
75°	83	71	56	47	45	87
85°	21	14	12	12	11	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.7	497.7	497.7	497.7	497.7
2.5°	498.9	497.7	494.0	497.7	497.4
5°	497.0	495.5	491.3	495.1	494.4
7.5°	493.2	491.7	486.8	489.8	489.1
10°	487.6	486.5	481.2	482.3	481.2
12.5°	481.2	479.7	472.2	472.9	471.0
15°	472.5	470.3	462.4	462.0	458.6
17.5°	463.5	460.1	450.7	448.9	446.2
20°	452.6	448.9	436.8	435.0	431.6
22.5°	440.6	436.8	424.1	419.9	417.3
25°	428.6	422.9	409.0	404.1	400.0
27.5°	415.0	408.3	393.6	387.2	383.1
30°	400.0	392.8	377.1	368.4	365.0
32.5°	385.3	376.7	360.5	350.7	346.2
35°	369.2	360.1	343.2	332.3	327.1
37.5°	353.8	342.9	325.6	312.8	307.5
40°	337.2	325.9	307.9	293.6	289.1
42.5°	319.9	308.3	289.5	275.9	268.8
45°	302.2	291.3	270.7	255.6	250.0
47.5°	283.8	272.6	251.9	236.5	230.1
50°	266.5	254.1	232.7	216.9	211.3
52.5°	247.7	235.0	215.0	197.7	192.1
55°	229.3	217.3	196.2	179.3	173.3
57.5°	210.5	197.7	177.4	160.9	155.6
60°	192.5	179.3	159.0	142.5	136.8
62.5°	173.3	160.9	140.2	125.2	119.5
65°	155.3	142.5	122.6	107.5	101.9
67.5°	137.2	124.4	105.3	91.0	86.5
70°	118.8	106.0	87.2	75.6	71.1
72.5°	100.7	88.3	71.1	60.5	57.9
75°	82.7	71.4	55.6	47.4	44.7
77.5°	64.3	55.3	42.1	35.7	33.5
80°	48.9	39.8	29.3	25.9	25.2
82.5°	33.8	25.9	19.5	18.4	18.0
85°	20.7	13.9	12.0	11.7	11.3
87.5°	8.6	6.0	5.6	5.6	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)