

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: P242888

Luminaire Tested: **S125RDR-S375D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242888
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-S375D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1113.6 lumens
Efficiency: N/A
Efficacy: 96.0 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

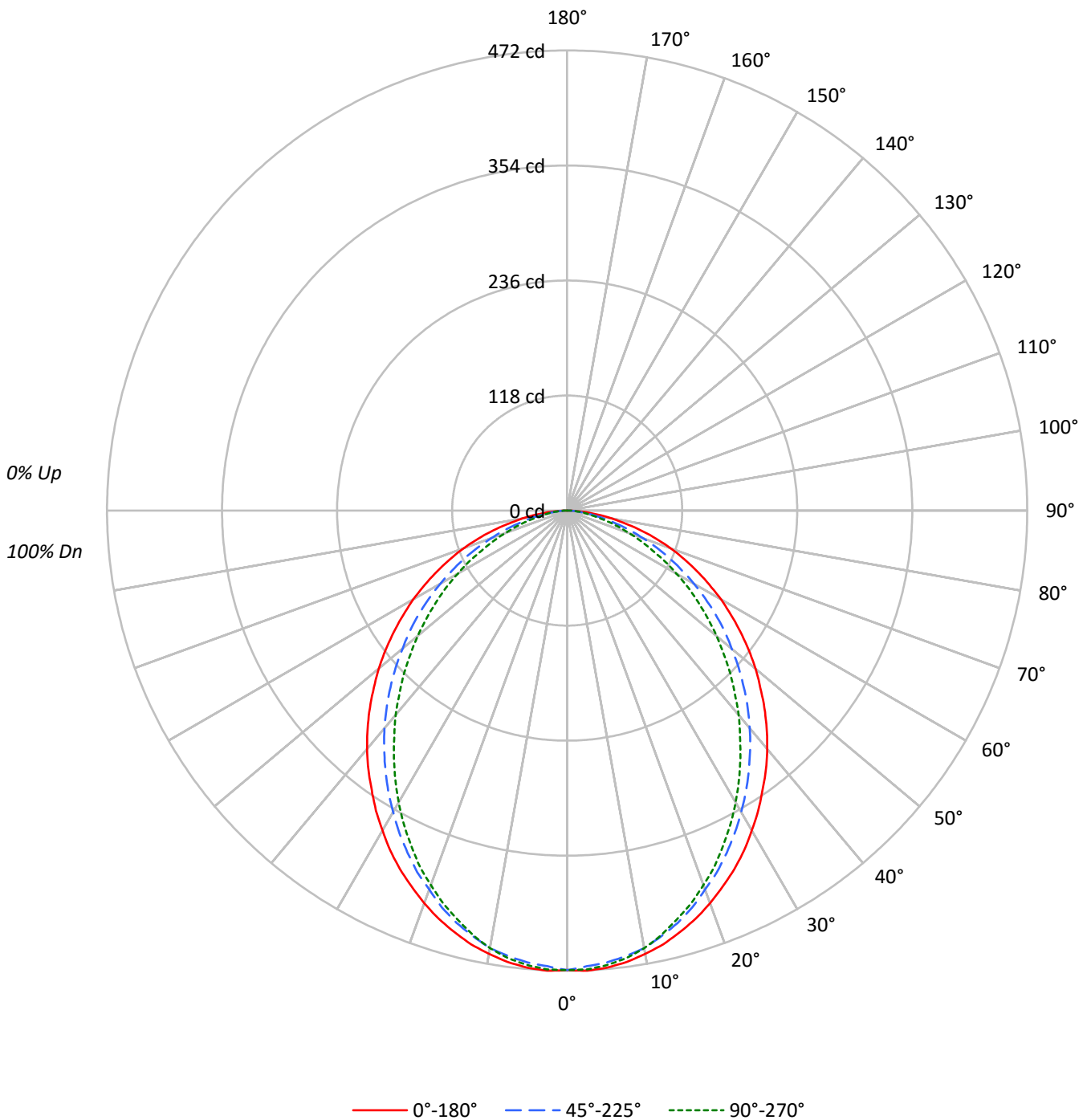
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3350	3350	3350
5°	3357	3320	3340
10°	3332	3289	3289
15°	3293	3222	3196
20°	3242	3128	3091
25°	3182	3037	2971
30°	3109	2930	2837
35°	3033	2820	2687
40°	2962	2705	2539
45°	2877	2576	2379
50°	2791	2437	2213
55°	2690	2302	2033
60°	2591	2141	1842
65°	2472	1951	1623
70°	2338	1716	1399
75°	2150	1447	1164
80°	1895	1138	978
85°	1598	930	873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.0
10°-20°	124.0	11.1
20°-30°	179.7	16.1
30°-40°	204.8	18.4
40°-50°	199.6	17.9
50°-60°	168.0	15.1
60°-70°	117.7	10.6
70°-80°	60.4	5.4
80°-90°	15.0	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°	348.1	31.3
0°-40°	552.9	49.6
0°-60°	920.4	82.7
0°-90°	1113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	471	469	465	469	468	45
15°	448	445	438	438	434	126
25°	406	400	387	383	379	187
35°	350	341	325	315	310	219
45°	286	276	256	242	237	221
55°	217	206	186	170	164	194
65°	147	135	116	102	96	146
75°	78	68	53	45	42	83
85°	20	13	11	11	11	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.3	471.3	471.3	471.3	471.3
2.5°	472.4	471.3	467.8	471.3	471.0
5°	470.6	469.2	465.3	468.8	468.1
7.5°	467.0	465.6	461.0	463.8	463.1
10°	461.7	460.6	455.7	456.7	455.7
12.5°	455.7	454.2	447.1	447.8	446.0
15°	447.5	445.3	437.9	437.5	434.3
17.5°	438.9	435.7	426.8	425.0	422.5
20°	428.6	425.0	413.6	411.9	408.7
22.5°	417.2	413.6	401.5	397.6	395.1
25°	405.8	400.5	387.3	382.7	378.8
27.5°	393.0	386.6	372.7	366.7	362.7
30°	378.8	372.0	357.0	348.9	345.7
32.5°	364.9	356.7	341.4	332.1	327.9
35°	349.6	341.0	325.0	314.7	309.7
37.5°	335.0	324.7	308.3	296.2	291.2
40°	319.3	308.6	291.5	278.0	273.7
42.5°	302.9	291.9	274.1	261.3	254.5
45°	286.2	275.9	256.3	242.1	236.7
47.5°	268.8	258.1	238.5	223.9	217.9
50°	252.4	240.6	220.4	205.4	200.1
52.5°	234.6	222.5	203.6	187.2	181.9
55°	217.1	205.8	185.8	169.8	164.1
57.5°	199.3	187.2	168.0	152.4	147.4
60°	182.3	169.8	150.6	134.9	129.6
62.5°	164.1	152.4	132.8	118.5	113.2
65°	147.0	134.9	116.0	101.8	96.5
67.5°	129.9	117.8	99.7	86.1	81.9
70°	112.5	100.4	82.6	71.6	67.3
72.5°	95.4	83.7	67.3	57.3	54.8
75°	78.3	67.6	52.7	44.9	42.4
77.5°	60.9	52.3	39.9	33.8	31.7
80°	46.3	37.7	27.8	24.6	23.9
82.5°	32.0	24.6	18.5	17.4	17.1
85°	19.6	13.2	11.4	11.0	10.7
87.5°	8.2	5.7	5.3	5.3	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)