

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: P242883

Luminaire Tested: **S125RDR-S375D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242883
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-S375D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED 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: 1379.3 lumens
Efficiency: N/A
Efficacy: 118.9 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

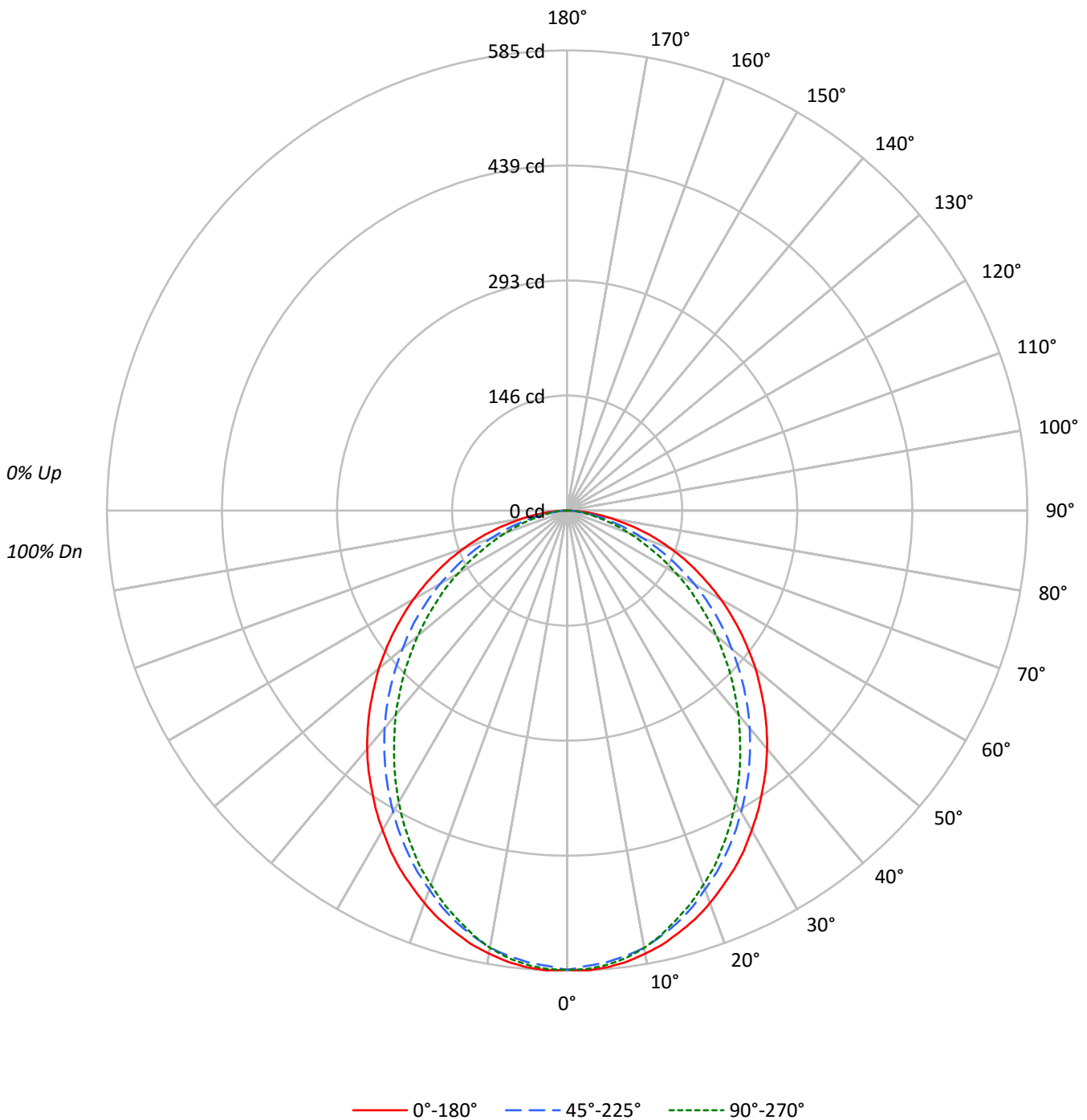
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242883

CATALOG NUMBER: S125RDR-S375D840-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242883

CATALOG NUMBER: S125RDR-S375D840-X4F0-XX-UDD-F-W

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°	4149	4149	4149
5°	4159	4112	4137
10°	4127	4073	4073
15°	4078	3990	3958
20°	4015	3876	3829
25°	3942	3762	3680
30°	3851	3630	3513
35°	3757	3493	3328
40°	3669	3350	3146
45°	3563	3191	2947
50°	3456	3017	2740
55°	3333	2852	2519
60°	3210	2651	2281
65°	3062	2417	2010
70°	2895	2126	1731
75°	2664	1793	1442
80°	2345	1408	1207
85°	1982	1150	1076



TEST NUMBER: P242883

CATALOG NUMBER: S125RDR-S375D840-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	4.0
10°-20°	153.6	11.1
20°-30°	222.6	16.1
30°-40°	253.7	18.4
40°-50°	247.2	17.9
50°-60°	208.1	15.1
60°-70°	145.8	10.6
70°-80°	74.7	5.4
80°-90°	18.6	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°	431.1	31.3
0°-40°	684.8	49.6
0°-60°	1140.1	82.7
0°-90°	1379.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	581	576	581	580	55
15°	554	552	542	542	538	156
25°	503	496	480	474	469	231
35°	433	422	403	390	384	271
45°	354	342	318	300	293	273
55°	269	255	230	210	203	241
65°	182	167	144	126	120	180
75°	97	84	65	56	52	103
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



TEST NUMBER: P242883

CATALOG NUMBER: S125RDR-S375D840-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.8	583.8	583.8	583.8	583.8
2.5°	585.1	583.8	579.4	583.8	583.4
5°	582.9	581.1	576.3	580.7	579.8
7.5°	578.5	576.7	571.0	574.5	573.7
10°	571.9	570.6	564.4	565.7	564.4
12.5°	564.4	562.6	553.8	554.7	552.5
15°	554.2	551.6	542.3	541.9	537.9
17.5°	543.7	539.7	528.7	526.5	523.4
20°	530.9	526.5	512.4	510.2	506.2
22.5°	516.8	512.4	497.4	492.5	489.4
25°	502.7	496.0	479.7	474.0	469.2
27.5°	486.8	478.9	461.7	454.2	449.3
30°	469.2	460.8	442.3	432.1	428.1
32.5°	452.0	441.8	422.9	411.4	406.1
35°	433.0	422.4	402.6	389.8	383.6
37.5°	414.9	402.1	381.8	366.9	360.7
40°	395.5	382.3	361.1	344.4	339.1
42.5°	375.2	361.6	339.5	323.6	315.3
45°	354.5	341.7	317.5	299.8	293.2
47.5°	332.9	319.7	295.4	277.3	269.8
50°	312.6	298.1	272.9	254.4	247.8
52.5°	290.6	275.6	252.2	231.9	225.3
55°	269.0	254.9	230.2	210.3	203.3
57.5°	246.9	231.9	208.1	188.7	182.5
60°	225.8	210.3	186.5	167.1	160.5
62.5°	203.3	188.7	164.5	146.8	140.2
65°	182.1	167.1	143.7	126.1	119.5
67.5°	160.9	145.9	123.5	106.7	101.4
70°	139.3	124.3	102.3	88.6	83.3
72.5°	118.2	103.6	83.3	71.0	67.9
75°	97.0	83.8	65.3	55.6	52.5
77.5°	75.4	64.8	49.4	41.9	39.2
80°	57.3	46.7	34.4	30.4	29.5
82.5°	39.7	30.4	22.9	21.6	21.2
85°	24.3	16.3	14.1	13.7	13.2
87.5°	10.1	7.1	6.6	6.6	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)