

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: P242874

Luminaire Tested: **S125RDR-S375D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242874
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-S375D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1287.4 lumens
Efficiency: N/A
Efficacy: 111.0 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

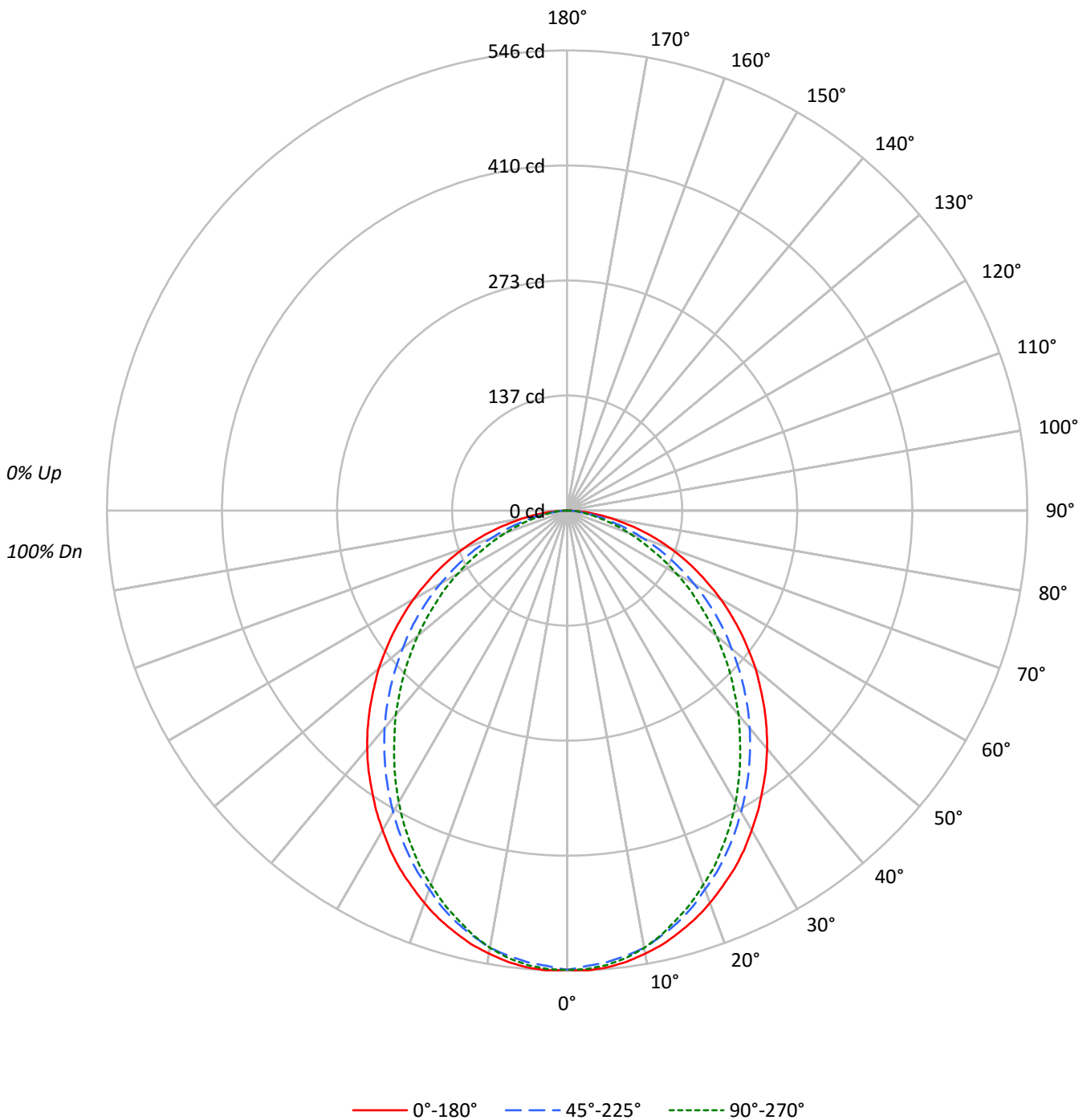
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3873	3873	3873
5°	3882	3838	3861
10°	3852	3802	3802
15°	3806	3725	3694
20°	3748	3617	3573
25°	3680	3512	3434
30°	3594	3388	3279
35°	3506	3260	3106
40°	3425	3127	2936
45°	3326	2978	2751
50°	3226	2816	2557
55°	3110	2662	2351
60°	2995	2475	2129
65°	2859	2257	1875
70°	2701	1985	1617
75°	2485	1672	1346
80°	2190	1314	1130
85°	1843	1076	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	4.0
10°-20°	143.3	11.1
20°-30°	207.8	16.1
30°-40°	236.7	18.4
40°-50°	230.8	17.9
50°-60°	194.2	15.1
60°-70°	136.1	10.6
70°-80°	69.8	5.4
80°-90°	17.4	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°	402.4	31.3
0°-40°	639.1	49.6
0°-60°	1064.1	82.7
0°-90°	1287.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1287.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	544	542	538	542	541	52
15°	517	515	506	506	502	146
25°	469	463	448	442	438	216
35°	404	394	376	364	358	253
45°	331	319	296	280	274	255
55°	251	238	215	196	190	224
65°	170	156	134	118	112	168
75°	90	78	61	52	49	96
85°	23	15	13	13	12	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.9	544.9	544.9	544.9	544.9
2.5°	546.1	544.9	540.8	544.9	544.5
5°	544.1	542.4	537.9	542.0	541.2
7.5°	539.9	538.3	532.9	536.2	535.4
10°	533.8	532.5	526.8	528.0	526.8
12.5°	526.8	525.1	516.9	517.7	515.7
15°	517.3	514.8	506.2	505.8	502.1
17.5°	507.4	503.7	493.4	491.4	488.5
20°	495.5	491.4	478.2	476.1	472.4
22.5°	482.3	478.2	464.2	459.7	456.8
25°	469.2	463.0	447.8	442.4	437.9
27.5°	454.3	446.9	430.9	423.9	419.4
30°	437.9	430.1	412.8	403.3	399.6
32.5°	421.8	412.4	394.7	384.0	379.0
35°	404.1	394.3	375.7	363.8	358.0
37.5°	387.3	375.3	356.4	342.4	336.6
40°	369.1	356.8	337.0	321.4	316.5
42.5°	350.2	337.5	316.9	302.1	294.2
45°	330.9	318.9	296.3	279.8	273.7
47.5°	310.7	298.4	275.7	258.9	251.9
50°	291.8	278.2	254.7	237.5	231.3
52.5°	271.2	257.2	235.4	216.5	210.3
55°	251.0	237.9	214.8	196.3	189.7
57.5°	230.5	216.5	194.2	176.1	170.4
60°	210.7	196.3	174.1	156.0	149.8
62.5°	189.7	176.1	153.5	137.0	130.9
65°	170.0	156.0	134.2	117.7	111.5
67.5°	150.2	136.2	115.2	99.6	94.7
70°	130.0	116.1	95.5	82.7	77.8
72.5°	110.3	96.7	77.8	66.3	63.4
75°	90.5	78.2	60.9	51.9	49.0
77.5°	70.4	60.5	46.1	39.1	36.6
80°	53.5	43.6	32.1	28.4	27.6
82.5°	37.0	28.4	21.4	20.2	19.8
85°	22.6	15.2	13.2	12.8	12.3
87.5°	9.5	6.6	6.2	6.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)