

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: P242869

Luminaire Tested: **S125RDR-S375D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242869
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-S375D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

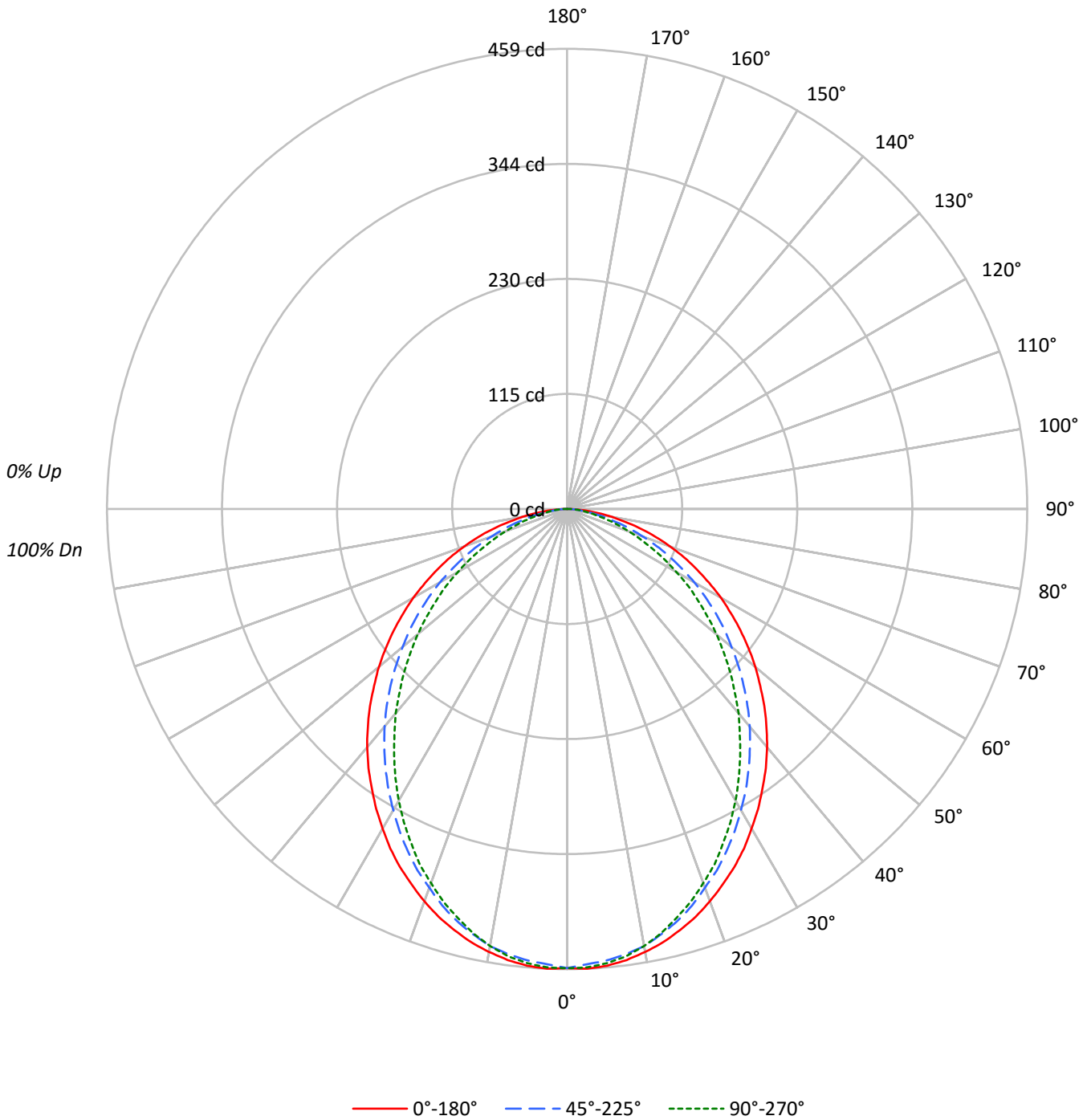
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3255	3255	3255
5°	3263	3226	3245
10°	3238	3195	3195
15°	3199	3130	3105
20°	3149	3040	3003
25°	3092	2951	2886
30°	3020	2847	2757
35°	2947	2740	2611
40°	2879	2628	2468
45°	2795	2503	2312
50°	2711	2367	2149
55°	2615	2238	1976
60°	2517	2080	1790
65°	2403	1897	1576
70°	2271	1667	1359
75°	2090	1406	1131
80°	1842	1105	950
85°	1549	905	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	4.0
10°-20°	120.5	11.1
20°-30°	174.7	16.1
30°-40°	199.0	18.4
40°-50°	193.9	17.9
50°-60°	163.2	15.1
60°-70°	114.4	10.6
70°-80°	58.6	5.4
80°-90°	14.6	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°	338.2	31.3
0°-40°	537.2	49.6
0°-60°	894.3	82.7
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	457	456	452	456	455	43
15°	435	433	425	425	422	123
25°	394	389	376	372	368	181
35°	340	331	316	306	301	213
45°	278	268	249	235	230	214
55°	211	200	181	165	160	189
65°	143	131	113	99	94	141
75°	76	66	51	44	41	80
85°	19	13	11	11	10	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	458.0	458.0	458.0	458.0	458.0
2.5°	459.0	458.0	454.5	458.0	457.6
5°	457.3	455.9	452.1	455.5	454.8
7.5°	453.8	452.4	447.9	450.7	450.0
10°	448.6	447.6	442.7	443.8	442.7
12.5°	442.7	441.3	434.4	435.1	433.4
15°	434.8	432.7	425.4	425.1	422.0
17.5°	426.5	423.4	414.7	413.0	410.6
20°	416.4	413.0	401.9	400.2	397.1
22.5°	405.4	401.9	390.2	386.4	383.9
25°	394.3	389.1	376.3	371.8	368.0
27.5°	381.9	375.6	362.1	356.3	352.5
30°	368.0	361.5	346.9	339.0	335.9
32.5°	354.5	346.6	331.7	322.7	318.6
35°	339.7	331.4	315.8	305.8	300.9
37.5°	325.5	315.4	299.5	287.8	282.9
40°	310.3	299.9	283.3	270.1	266.0
42.5°	294.3	283.6	266.3	253.9	247.3
45°	278.1	268.1	249.0	235.2	230.0
47.5°	261.1	250.8	231.7	217.6	211.7
50°	245.2	233.8	214.1	199.6	194.4
52.5°	227.9	216.2	197.8	181.9	176.7
55°	211.0	199.9	180.6	165.0	159.5
57.5°	193.7	181.9	163.3	148.0	143.2
60°	177.1	165.0	146.3	131.1	125.9
62.5°	159.5	148.0	129.0	115.2	110.0
65°	142.9	131.1	112.8	98.9	93.7
67.5°	126.2	114.5	96.8	83.7	79.6
70°	109.3	97.5	80.2	69.5	65.4
72.5°	92.7	81.3	65.4	55.7	53.3
75°	76.1	65.7	51.2	43.6	41.2
77.5°	59.1	50.8	38.7	32.9	30.8
80°	45.0	36.7	27.0	23.9	23.2
82.5°	31.1	23.9	18.0	16.9	16.6
85°	19.0	12.8	11.1	10.7	10.4
87.5°	8.0	5.5	5.2	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)