

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: P242355

Luminaire Tested: **S122RDR-S675D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-F-W
Description: DEFINE 2 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: 1800.3 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

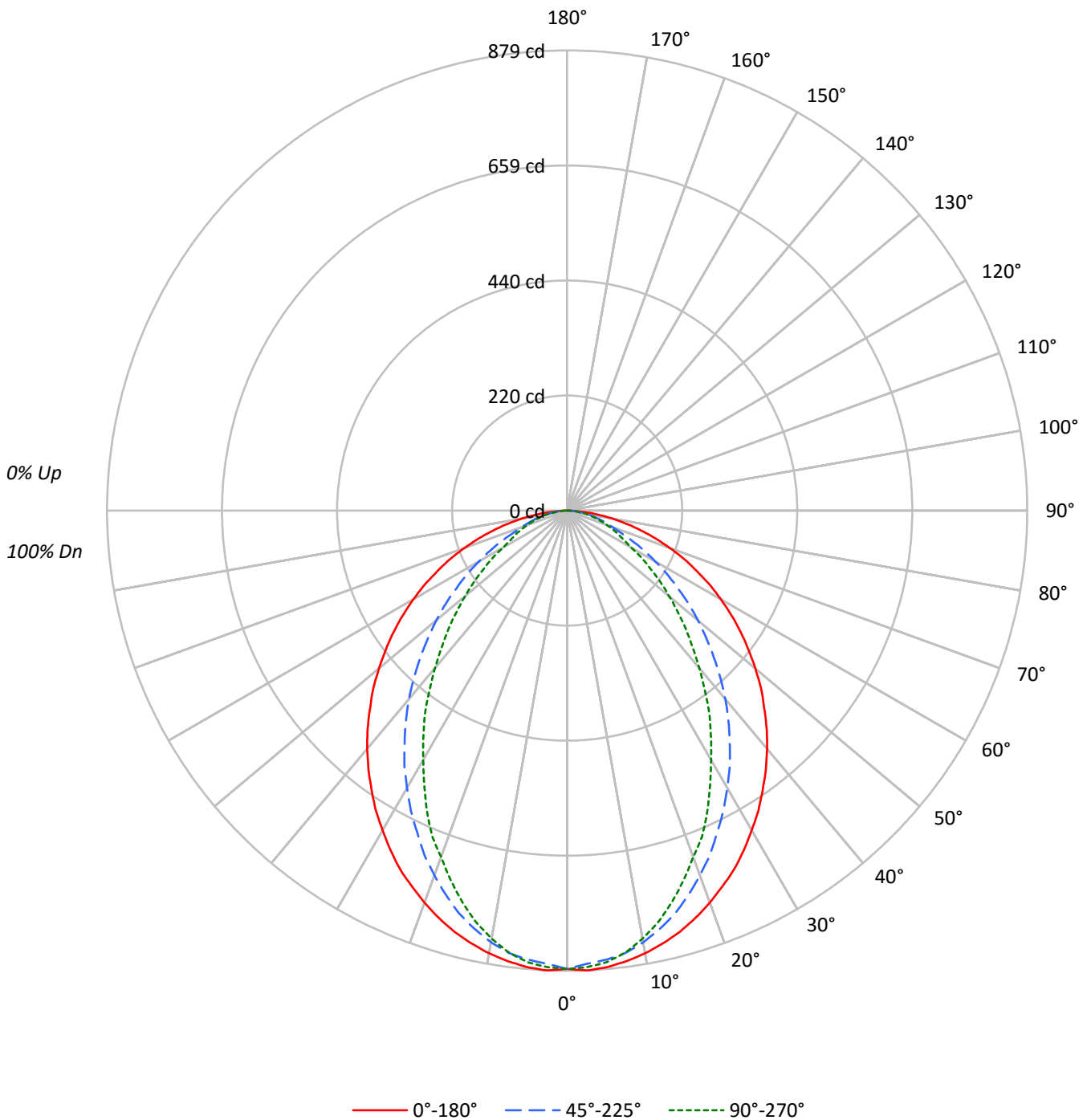
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16674	16674	16674
5°	16738	16465	16556
10°	16609	16195	16057
15°	16419	15715	15263
20°	16153	15030	14274
25°	15882	14252	13318
30°	15506	13452	12093
35°	15142	12582	11015
40°	14772	11682	9769
45°	14339	10670	8642
50°	13898	9648	7536
55°	13443	8551	6472
60°	12918	7394	5371
65°	12318	6211	4890
70°	11601	5118	4500
75°	10730	4666	4195
80°	9466	4168	3828
85°	7452	3300	3300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	4.6
10°-20°	225.2	12.5
20°-30°	316.2	17.6
30°-40°	344.7	19.1
40°-50°	316.8	17.6
50°-60°	248.8	13.8
60°-70°	161.9	9.0
70°-80°	83.4	4.6
80°-90°	21.3	1.2
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°	623.5	34.6
0°-40°	968.1	53.8
0°-60°	1533.7	85.2
0°-90°	1800.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	875	871	861	868	866	83
15°	833	824	797	782	774	235
25°	756	730	678	646	634	348
35°	651	611	541	491	474	408
45°	532	479	396	340	321	411
55°	405	343	258	210	195	362
65°	273	209	138	111	108	271
75°	146	90	63	58	57	154
85°	34	17	15	15	15	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.4	875.4	875.4	875.4	875.4
2.5°	879.3	875.4	866.6	874.6	873.0
5°	875.4	871.4	861.1	868.2	865.9
7.5°	868.2	863.5	852.4	855.6	851.6
10°	858.7	853.2	837.3	835.0	830.2
12.5°	846.8	839.7	818.3	813.6	804.9
15°	832.6	823.9	796.9	781.9	774.0
17.5°	815.9	803.3	770.0	752.6	739.9
20°	796.9	781.1	741.5	721.7	704.2
22.5°	776.3	758.1	712.2	685.2	673.4
25°	755.7	730.4	678.1	645.6	633.7
27.5°	731.2	704.2	646.4	609.2	591.0
30°	705.0	674.9	611.6	571.2	549.8
32.5°	679.7	643.3	578.3	530.8	511.0
35°	651.2	610.8	541.1	491.2	473.7
37.5°	623.4	579.9	506.2	451.5	431.7
40°	594.1	546.6	469.8	413.5	392.9
42.5°	564.0	513.3	433.3	374.7	354.9
45°	532.3	479.3	396.1	339.8	320.8
47.5°	502.2	446.0	360.4	304.2	286.8
50°	469.0	412.7	325.6	270.9	254.3
52.5°	436.5	377.1	292.3	240.0	225.0
55°	404.8	343.0	257.5	209.9	194.9
57.5°	372.3	309.0	226.6	182.2	169.5
60°	339.1	275.7	194.1	153.7	141.0
62.5°	306.6	243.2	166.4	128.3	122.0
65°	273.3	209.1	137.8	110.9	108.5
67.5°	241.6	177.4	110.9	97.4	95.1
70°	208.3	146.6	91.9	84.0	80.8
72.5°	176.7	118.0	76.8	70.5	68.9
75°	145.8	90.3	63.4	57.8	57.0
77.5°	114.9	64.2	49.9	46.7	45.2
80°	86.3	45.9	38.0	34.9	34.9
82.5°	60.2	30.9	26.1	24.6	24.6
85°	34.1	17.4	15.1	15.1	15.1
87.5°	12.7	6.3	6.3	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)