

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: FAIL-SAFE

Report Number: P412163

Luminaire Tested: **MRI-2ASR-4-500-L950-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-4-500-L950-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

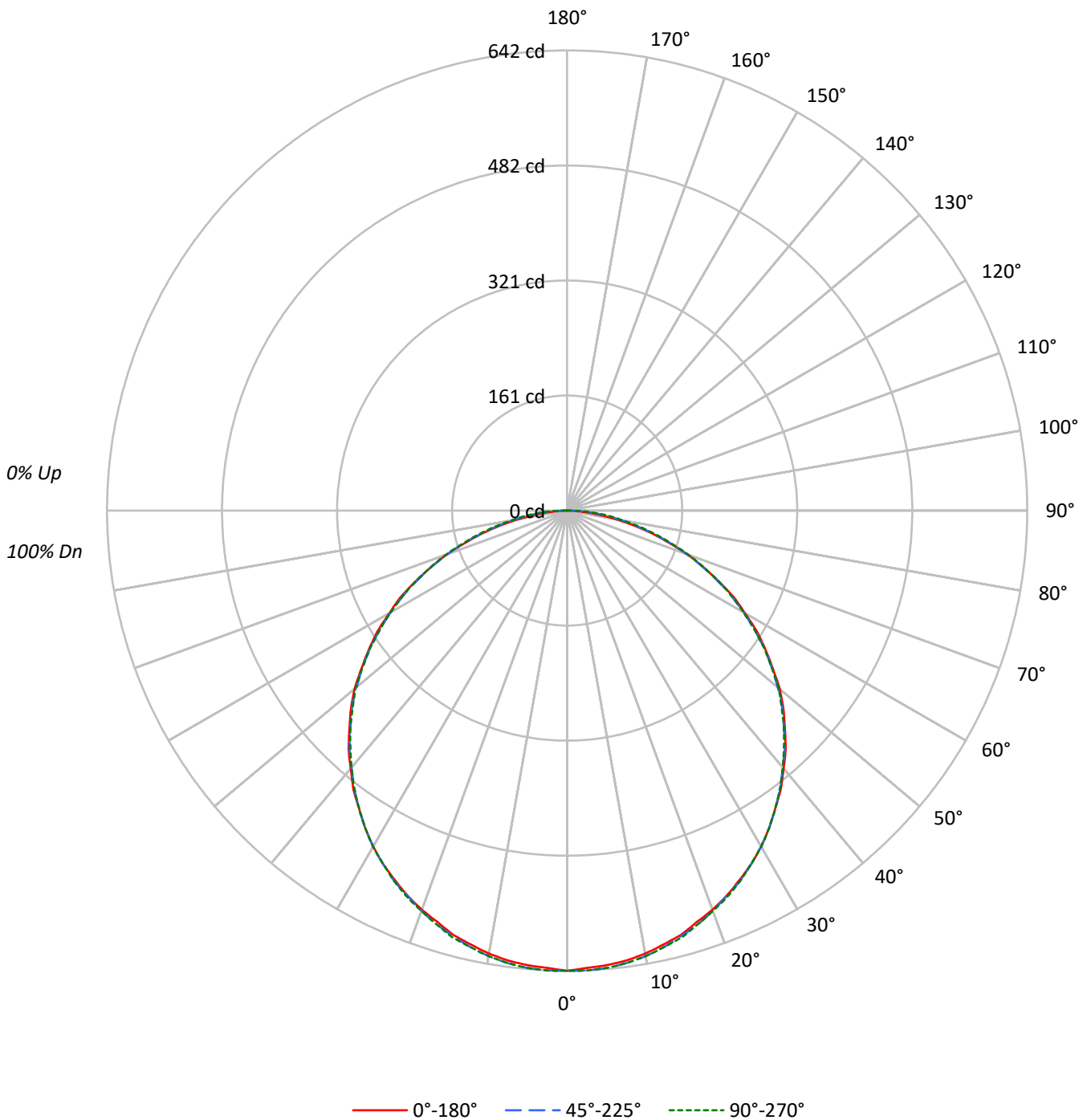
Lumens per Lamp: N/A
Luminaire Lumens: 1845.0 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.4
Input Voltage (V): NR
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	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10369	10369	10369
5°	10319	10379	10379
10°	10289	10348	10348
15°	10245	10275	10307
20°	10184	10215	10215
25°	10133	10167	10167
30°	10092	10092	10092
35°	9983	9983	9983
40°	9902	9862	9862
45°	9805	9764	9764
50°	9726	9633	9678
55°	9503	9453	9453
60°	9245	9184	9184
65°	8902	8833	8902
70°	8403	8403	8488
75°	7555	7667	7898
80°	6313	6992	7336
85°	4428	6799	7132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.3
10°-20°	173.5	9.4
20°-30°	262.7	14.2
30°-40°	317.2	17.2
40°-50°	330.5	17.9
50°-60°	300.2	16.3
60°-70°	229.5	12.4
70°-80°	131.4	7.1
80°-90°	39.3	2.1
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°	497.0	26.9
0°-40°	814.2	44.1
0°-60°	1444.8	78.3
0°-90°	1845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	637	639	640	640	640	60
15°	613	615	615	617	617	173
25°	569	569	571	571	571	262
35°	506	508	506	506	506	317
45°	429	429	428	428	428	332
55°	338	336	336	336	336	302
65°	233	233	231	231	233	231
75°	121	121	123	125	127	128
85°	24	29	37	37	38	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.2	642.2	642.2	642.2	642.2
2.5°	638.6	640.4	642.2	644.1	642.2
5°	636.7	638.6	640.4	640.4	640.4
7.5°	633.1	634.9	636.7	636.7	636.7
10°	627.6	629.4	631.2	631.2	631.2
12.5°	620.2	622.1	623.9	623.9	623.9
15°	612.9	614.7	614.7	616.6	616.6
17.5°	601.9	605.5	605.5	607.4	605.5
20°	592.7	594.5	594.5	594.5	594.5
22.5°	581.7	583.5	581.7	583.5	583.5
25°	568.8	568.8	570.7	570.7	570.7
27.5°	556.0	556.0	556.0	556.0	556.0
30°	541.3	541.3	541.3	541.3	541.3
32.5°	524.8	524.8	524.8	524.8	524.8
35°	506.5	508.3	506.5	506.5	506.5
37.5°	489.9	489.9	488.1	488.1	488.1
40°	469.8	469.8	467.9	467.9	467.9
42.5°	451.4	449.6	449.6	447.7	447.7
45°	429.4	429.4	427.6	427.6	427.6
47.5°	409.2	407.4	407.4	407.4	405.5
50°	387.2	385.3	383.5	383.5	385.3
52.5°	361.5	361.5	359.7	359.7	359.7
55°	337.6	335.8	335.8	335.8	335.8
57.5°	313.8	310.1	310.1	311.9	310.1
60°	286.3	284.4	284.4	284.4	284.4
62.5°	262.4	258.7	258.7	258.7	258.7
65°	233.0	233.0	231.2	231.2	233.0
67.5°	205.5	205.5	203.7	205.5	205.5
70°	178.0	176.2	178.0	178.0	179.8
72.5°	148.6	150.5	150.5	150.5	152.3
75°	121.1	121.1	122.9	124.8	126.6
77.5°	93.6	95.4	99.1	100.9	102.8
80°	67.9	71.6	75.2	78.9	78.9
82.5°	44.0	47.7	55.0	60.6	60.6
85°	23.9	29.4	36.7	36.7	38.5
87.5°	9.2	14.7	20.2	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)