

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: P412091

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412091
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-2-500-L950-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 912.0 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

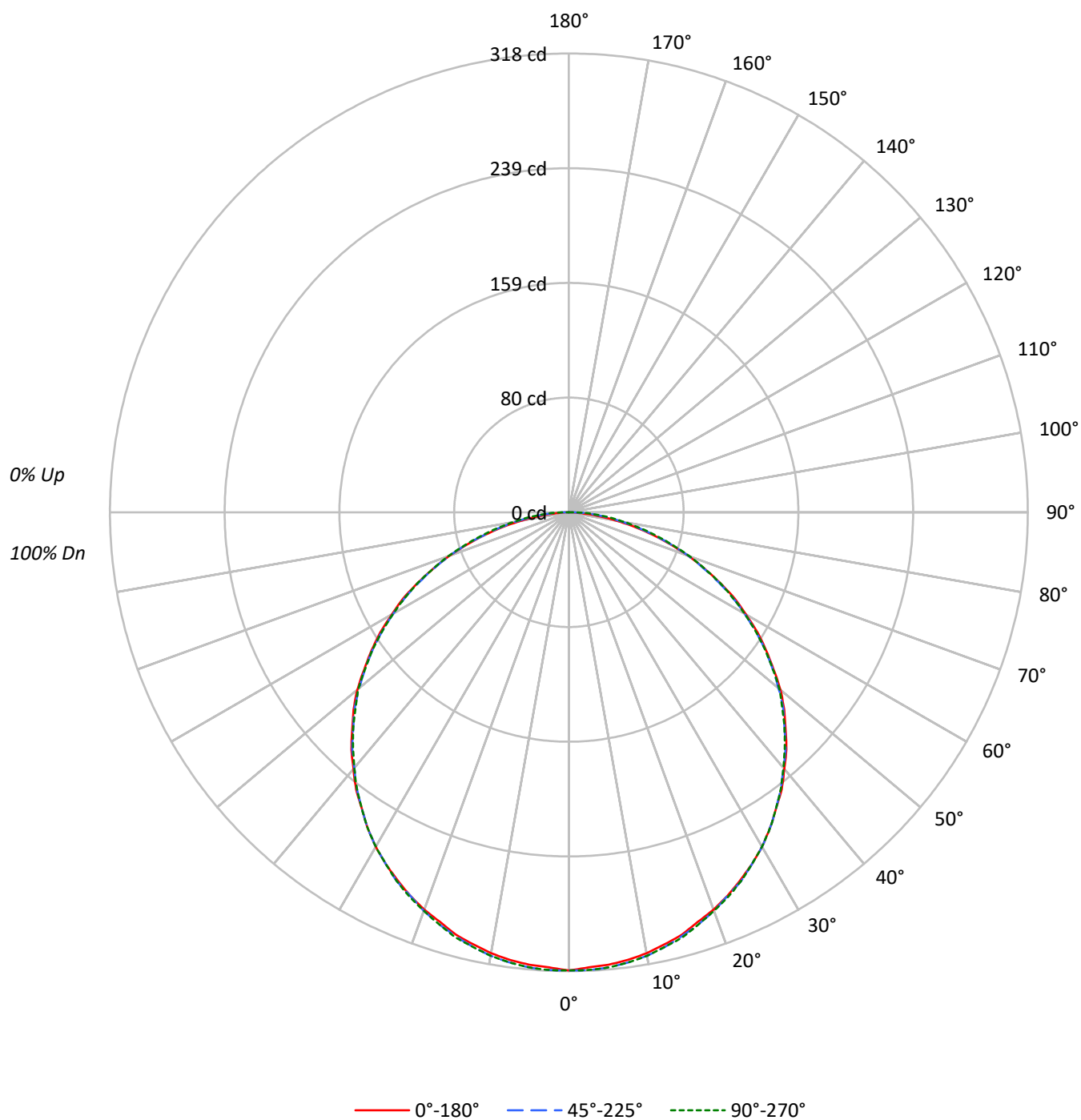
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	64		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	57	52		62	56	52
5	75	62	53	47	73	61	53	46		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		49	41	35		47	40	35		46	40	35
8	60	46	38	32	59	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10253	10253	10253
5°	10201	10263	10263
10°	10171	10230	10230
15°	10130	10160	10190
20°	10069	10100	10100
25°	10019	10051	10051
30°	9978	9978	9978
35°	9867	9867	9867
40°	9788	9750	9750
45°	9691	9650	9650
50°	9615	9525	9570
55°	9396	9346	9346
60°	9139	9080	9080
65°	8802	8734	8802
70°	8308	8308	8393
75°	7473	7586	7810
80°	6248	6918	7252
85°	4372	6706	7040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	3.3
10°-20°	85.8	9.4
20°-30°	129.9	14.2
30°-40°	156.8	17.2
40°-50°	163.3	17.9
50°-60°	148.4	16.3
60°-70°	113.5	12.4
70°-80°	65.0	7.1
80°-90°	19.4	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°	245.7	26.9
0°-40°	402.5	44.1
0°-60°	714.2	78.3
0°-90°	912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	315	316	317	317	317	30
15°	303	304	304	305	305	85
25°	281	281	282	282	282	130
35°	250	251	250	250	250	157
45°	212	212	211	211	211	164
55°	167	166	166	166	166	149
65°	115	115	114	114	115	114
75°	60	60	61	62	63	63
85°	12	14	18	18	19	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.5	317.5	317.5	317.5	317.5
2.5°	315.7	316.6	317.5	318.4	317.5
5°	314.7	315.7	316.6	316.6	316.6
7.5°	312.9	313.8	314.7	314.7	314.7
10°	310.2	311.1	312.0	312.0	312.0
12.5°	306.6	307.5	308.4	308.4	308.4
15°	303.0	303.9	303.9	304.8	304.8
17.5°	297.5	299.3	299.3	300.2	299.3
20°	293.0	293.9	293.9	293.9	293.9
22.5°	287.5	288.4	287.5	288.4	288.4
25°	281.2	281.2	282.1	282.1	282.1
27.5°	274.8	274.8	274.8	274.8	274.8
30°	267.6	267.6	267.6	267.6	267.6
32.5°	259.4	259.4	259.4	259.4	259.4
35°	250.3	251.3	250.3	250.3	250.3
37.5°	242.2	242.2	241.3	241.3	241.3
40°	232.2	232.2	231.3	231.3	231.3
42.5°	223.1	222.2	222.2	221.3	221.3
45°	212.2	212.2	211.3	211.3	211.3
47.5°	202.3	201.4	201.4	201.4	200.5
50°	191.4	190.5	189.6	189.6	190.5
52.5°	178.7	178.7	177.8	177.8	177.8
55°	166.9	166.0	166.0	166.0	166.0
57.5°	155.1	153.3	153.3	154.2	153.3
60°	141.5	140.6	140.6	140.6	140.6
62.5°	129.7	127.9	127.9	127.9	127.9
65°	115.2	115.2	114.3	114.3	115.2
67.5°	101.6	101.6	100.7	101.6	101.6
70°	88.0	87.1	88.0	88.0	88.9
72.5°	73.5	74.4	74.4	74.4	75.3
75°	59.9	59.9	60.8	61.7	62.6
77.5°	46.3	47.2	49.0	49.9	50.8
80°	33.6	35.4	37.2	39.0	39.0
82.5°	21.8	23.6	27.2	29.9	29.9
85°	11.8	14.5	18.1	18.1	19.0
87.5°	4.5	7.3	10.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)