

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: P412089

Luminaire Tested: **MRI-2ASR-2-500-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412089
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-L940-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

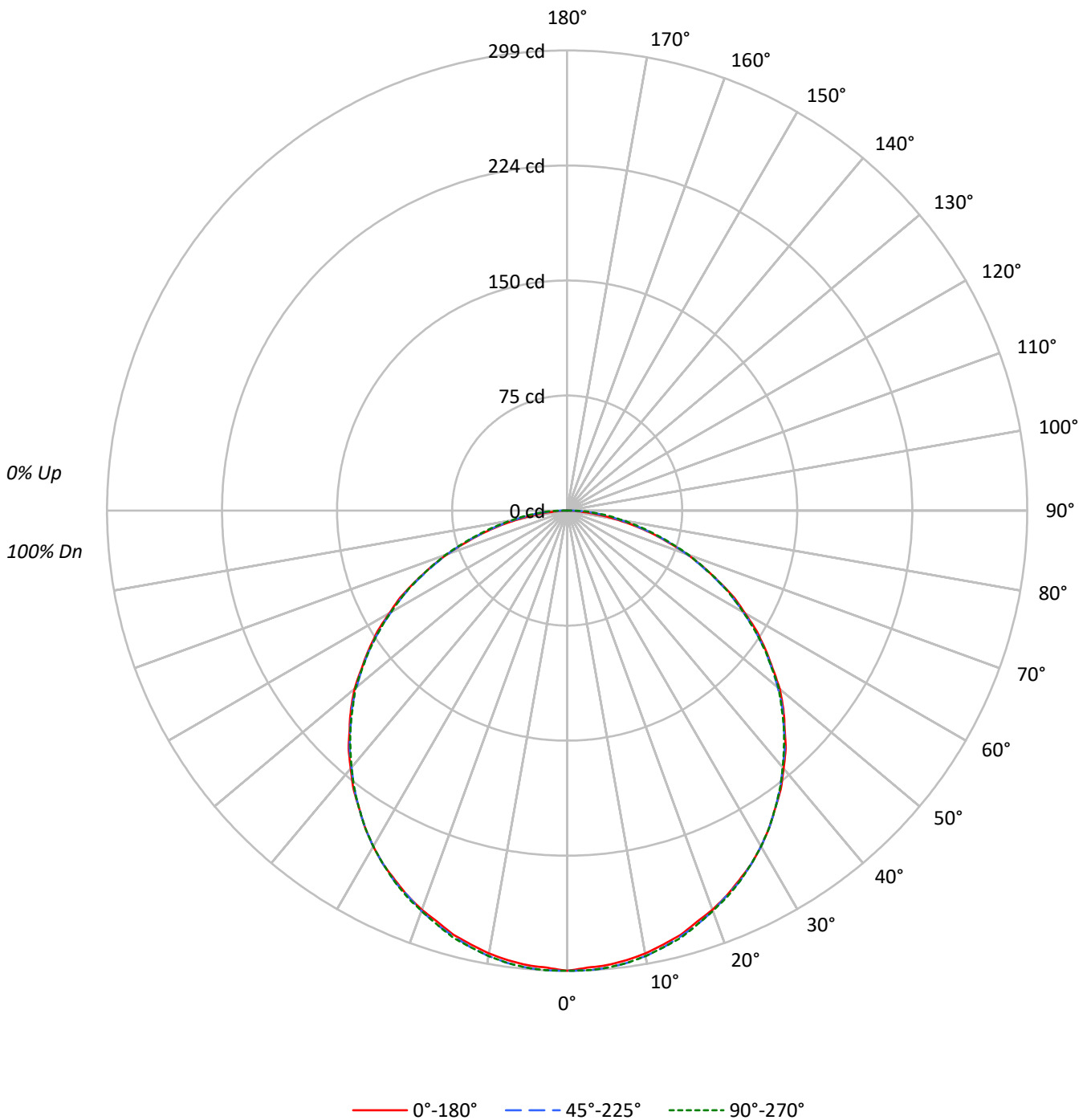
Lumens per Lamp: N/A
Luminaire Lumens: 859.0 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (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°	9655	9655	9655
5°	9611	9666	9666
10°	9581	9637	9637
15°	9538	9568	9598
20°	9484	9512	9512
25°	9435	9467	9467
30°	9396	9396	9396
35°	9295	9295	9295
40°	9219	9185	9185
45°	9129	9092	9092
50°	9058	8972	9013
55°	8850	8800	8800
60°	8609	8551	8551
65°	8290	8222	8290
70°	7827	7827	7902
75°	7037	7137	7349
80°	5876	6509	6825
85°	4113	6336	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	3.3
10°-20°	80.8	9.4
20°-30°	122.3	14.2
30°-40°	147.7	17.2
40°-50°	153.9	17.9
50°-60°	139.7	16.3
60°-70°	106.9	12.4
70°-80°	61.2	7.1
80°-90°	18.3	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°	231.4	26.9
0°-40°	379.1	44.1
0°-60°	672.7	78.3
0°-90°	859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	296	297	298	298	298	28
15°	285	286	286	287	287	80
25°	265	265	266	266	266	122
35°	236	237	236	236	236	148
45°	200	200	199	199	199	154
55°	157	156	156	156	156	141
65°	108	108	108	108	108	107
75°	56	56	57	58	59	60
85°	11	14	17	17	18	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	299.0	299.0	299.0	299.0	299.0
2.5°	297.3	298.2	299.0	299.9	299.0
5°	296.5	297.3	298.2	298.2	298.2
7.5°	294.7	295.6	296.5	296.5	296.5
10°	292.2	293.0	293.9	293.9	293.9
12.5°	288.8	289.6	290.5	290.5	290.5
15°	285.3	286.2	286.2	287.1	287.1
17.5°	280.2	281.9	281.9	282.8	281.9
20°	276.0	276.8	276.8	276.8	276.8
22.5°	270.8	271.7	270.8	271.7	271.7
25°	264.8	264.8	265.7	265.7	265.7
27.5°	258.9	258.9	258.9	258.9	258.9
30°	252.0	252.0	252.0	252.0	252.0
32.5°	244.3	244.3	244.3	244.3	244.3
35°	235.8	236.7	235.8	235.8	235.8
37.5°	228.1	228.1	227.3	227.3	227.3
40°	218.7	218.7	217.9	217.9	217.9
42.5°	210.2	209.3	209.3	208.5	208.5
45°	199.9	199.9	199.1	199.1	199.1
47.5°	190.5	189.7	189.7	189.7	188.8
50°	180.3	179.4	178.6	178.6	179.4
52.5°	168.3	168.3	167.5	167.5	167.5
55°	157.2	156.3	156.3	156.3	156.3
57.5°	146.1	144.4	144.4	145.2	144.4
60°	133.3	132.4	132.4	132.4	132.4
62.5°	122.2	120.5	120.5	120.5	120.5
65°	108.5	108.5	107.6	107.6	108.5
67.5°	95.7	95.7	94.8	95.7	95.7
70°	82.9	82.0	82.9	82.9	83.7
72.5°	69.2	70.1	70.1	70.1	70.9
75°	56.4	56.4	57.2	58.1	58.9
77.5°	43.6	44.4	46.1	47.0	47.8
80°	31.6	33.3	35.0	36.7	36.7
82.5°	20.5	22.2	25.6	28.2	28.2
85°	11.1	13.7	17.1	17.1	17.9
87.5°	4.3	6.8	9.4	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)