

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: P412143

Luminaire Tested: **MRI-2ASR-4-250-L840-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412143
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-4-250-L840-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1012.0 lumens
Efficiency: N/A
Efficacy: 48.7 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

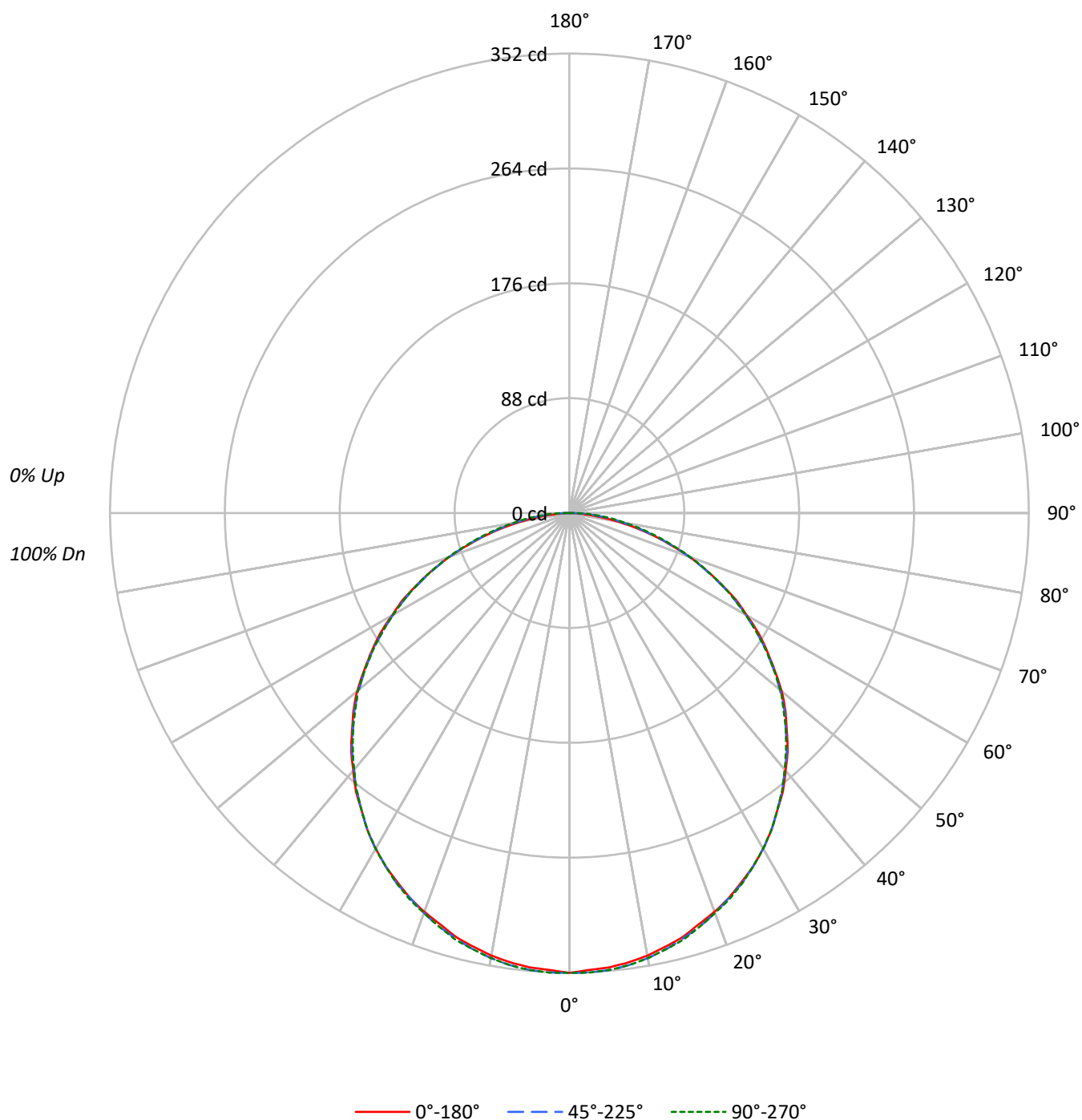
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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	58	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°	5688	5688	5688
5°	5661	5694	5694
10°	5643	5676	5676
15°	5620	5636	5653
20°	5586	5603	5603
25°	5558	5576	5576
30°	5535	5535	5535
35°	5476	5476	5476
40°	5432	5410	5410
45°	5377	5354	5354
50°	5335	5285	5310
55°	5213	5185	5185
60°	5070	5038	5038
65°	4883	4844	4883
70°	4607	4607	4655
75°	4142	4205	4329
80°	3459	3840	4026
85°	2427	3724	3909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	3.3
10°-20°	95.2	9.4
20°-30°	144.1	14.2
30°-40°	174.0	17.2
40°-50°	181.3	17.9
50°-60°	164.6	16.3
60°-70°	125.9	12.4
70°-80°	72.1	7.1
80°-90°	21.5	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°	272.6	26.9
0°-40°	446.6	44.1
0°-60°	792.5	78.3
0°-90°	1012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	349	350	351	351	351	33
15°	336	337	337	338	338	95
25°	312	312	313	313	313	144
35°	278	279	278	278	278	174
45°	236	236	234	234	234	182
55°	185	184	184	184	184	166
65°	128	128	127	127	128	127
75°	66	66	67	68	69	70
85°	13	16	20	20	21	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	352.3	352.3	352.3	352.3	352.3
2.5°	350.3	351.3	352.3	353.3	352.3
5°	349.3	350.3	351.3	351.3	351.3
7.5°	347.2	348.3	349.3	349.3	349.3
10°	344.2	345.2	346.2	346.2	346.2
12.5°	340.2	341.2	342.2	342.2	342.2
15°	336.2	337.2	337.2	338.2	338.2
17.5°	330.1	332.1	332.1	333.2	332.1
20°	325.1	326.1	326.1	326.1	326.1
22.5°	319.1	320.1	319.1	320.1	320.1
25°	312.0	312.0	313.0	313.0	313.0
27.5°	305.0	305.0	305.0	305.0	305.0
30°	296.9	296.9	296.9	296.9	296.9
32.5°	287.9	287.9	287.9	287.9	287.9
35°	277.8	278.8	277.8	277.8	277.8
37.5°	268.7	268.7	267.7	267.7	267.7
40°	257.7	257.7	256.7	256.7	256.7
42.5°	247.6	246.6	246.6	245.6	245.6
45°	235.5	235.5	234.5	234.5	234.5
47.5°	224.5	223.4	223.4	223.4	222.4
50°	212.4	211.4	210.4	210.4	211.4
52.5°	198.3	198.3	197.3	197.3	197.3
55°	185.2	184.2	184.2	184.2	184.2
57.5°	172.1	170.1	170.1	171.1	170.1
60°	157.0	156.0	156.0	156.0	156.0
62.5°	143.9	141.9	141.9	141.9	141.9
65°	127.8	127.8	126.8	126.8	127.8
67.5°	112.7	112.7	111.7	112.7	112.7
70°	97.6	96.6	97.6	97.6	98.6
72.5°	81.5	82.5	82.5	82.5	83.5
75°	66.4	66.4	67.4	68.4	69.4
77.5°	51.3	52.3	54.4	55.4	56.4
80°	37.2	39.3	41.3	43.3	43.3
82.5°	24.2	26.2	30.2	33.2	33.2
85°	13.1	16.1	20.1	20.1	21.1
87.5°	5.0	8.1	11.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)