

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: P412145

Luminaire Tested: **MRI-2ASR-4-250-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412145
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-L850-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1089.0 lumens
Efficiency: N/A
Efficacy: 52.4 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

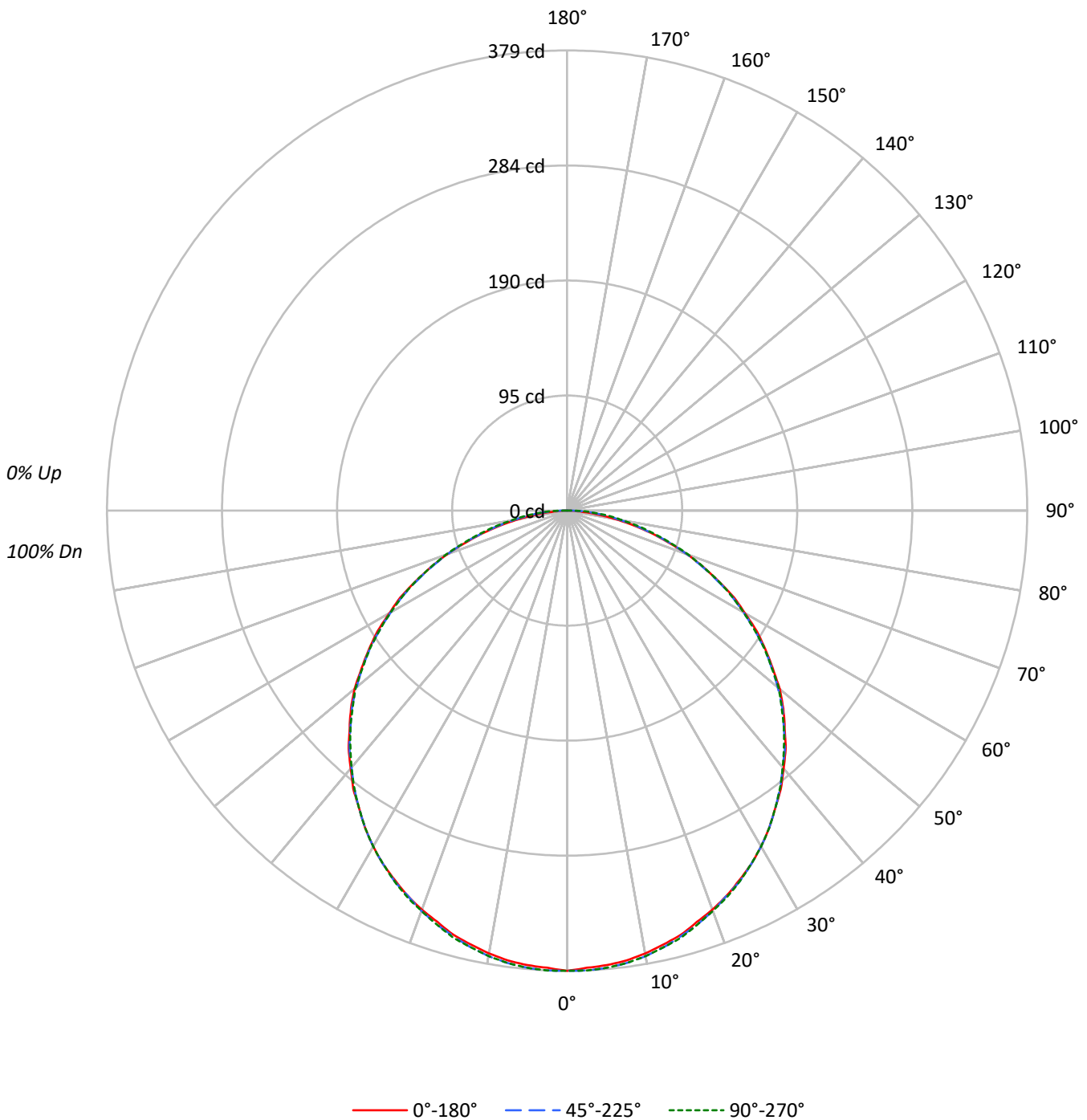
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	77	70	64	74	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°	6121	6121	6121
5°	6091	6126	6126
10°	6073	6109	6109
15°	6048	6064	6083
20°	6010	6029	6029
25°	5982	6000	6000
30°	5957	5957	5957
35°	5891	5891	5891
40°	5845	5821	5821
45°	5786	5763	5763
50°	5740	5687	5712
55°	5610	5579	5579
60°	5457	5422	5422
65°	5257	5215	5257
70°	4961	4961	5009
75°	4460	4529	4660
80°	3729	4128	4333
85°	2612	4020	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.3
10°-20°	102.4	9.4
20°-30°	155.1	14.2
30°-40°	187.2	17.2
40°-50°	195.0	17.9
50°-60°	177.2	16.3
60°-70°	135.5	12.4
70°-80°	77.6	7.1
80°-90°	23.2	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°	293.4	26.9
0°-40°	480.6	44.1
0°-60°	852.8	78.3
0°-90°	1089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	376	377	378	378	378	36
15°	362	363	363	364	364	102
25°	336	336	337	337	337	155
35°	299	300	299	299	299	187
45°	253	253	252	252	252	196
55°	199	198	198	198	198	178
65°	138	138	136	136	138	136
75°	72	72	73	74	75	76
85°	14	17	22	22	23	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	379.1	379.1	379.1	379.1	379.1
2.5°	376.9	378.0	379.1	380.2	379.1
5°	375.8	376.9	378.0	378.0	378.0
7.5°	373.7	374.7	375.8	375.8	375.8
10°	370.4	371.5	372.6	372.6	372.6
12.5°	366.1	367.2	368.3	368.3	368.3
15°	361.8	362.8	362.8	363.9	363.9
17.5°	355.3	357.4	357.4	358.5	357.4
20°	349.8	350.9	350.9	350.9	350.9
22.5°	343.3	344.4	343.3	344.4	344.4
25°	335.8	335.8	336.8	336.8	336.8
27.5°	328.2	328.2	328.2	328.2	328.2
30°	319.5	319.5	319.5	319.5	319.5
32.5°	309.8	309.8	309.8	309.8	309.8
35°	298.9	300.0	298.9	298.9	298.9
37.5°	289.2	289.2	288.1	288.1	288.1
40°	277.3	277.3	276.2	276.2	276.2
42.5°	266.4	265.4	265.4	264.3	264.3
45°	253.4	253.4	252.4	252.4	252.4
47.5°	241.5	240.4	240.4	240.4	239.4
50°	228.5	227.4	226.4	226.4	227.4
52.5°	213.4	213.4	212.3	212.3	212.3
55°	199.3	198.2	198.2	198.2	198.2
57.5°	185.2	183.0	183.0	184.1	183.0
60°	169.0	167.9	167.9	167.9	167.9
62.5°	154.9	152.7	152.7	152.7	152.7
65°	137.6	137.6	136.5	136.5	137.6
67.5°	121.3	121.3	120.2	121.3	121.3
70°	105.1	104.0	105.1	105.1	106.1
72.5°	87.7	88.8	88.8	88.8	89.9
75°	71.5	71.5	72.6	73.7	74.7
77.5°	55.2	56.3	58.5	59.6	60.7
80°	40.1	42.2	44.4	46.6	46.6
82.5°	26.0	28.2	32.5	35.7	35.7
85°	14.1	17.3	21.7	21.7	22.7
87.5°	5.4	8.7	11.9	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)