

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: P412097

Luminaire Tested: **MRI-4ASR-2-1000-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-2-1000-L850-OPL
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

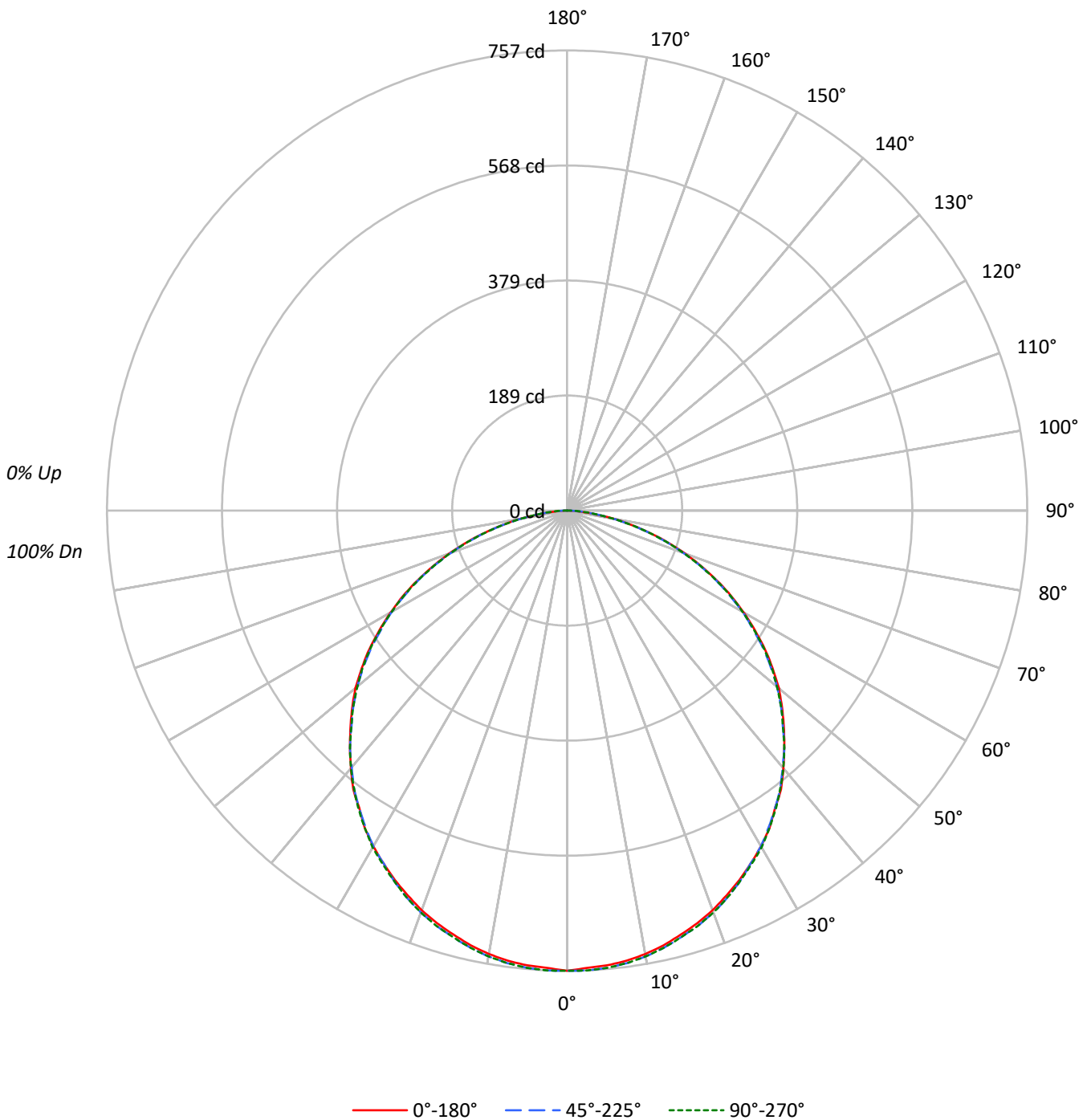
Input Watts (W): 34.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12224	12224	12224
5°	12172	12238	12238
10°	12144	12211	12211
15°	12072	12140	12140
20°	12019	12091	12091
25°	11949	11986	11986
30°	11891	11891	11930
35°	11761	11761	11801
40°	11666	11622	11666
45°	11510	11463	11463
50°	11421	11318	11318
55°	11178	11063	11119
60°	10831	10763	10763
65°	10376	10296	10296
70°	9711	9616	9616
75°	8727	8596	8596
80°	7271	7076	7076
85°	4576	4946	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.3
10°-20°	204.9	9.5
20°-30°	309.9	14.4
30°-40°	373.8	17.4
40°-50°	388.3	18.1
50°-60°	351.7	16.4
60°-70°	266.5	12.4
70°-80°	146.8	6.8
80°-90°	34.3	1.6
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°	586.5	27.3
0°-40°	960.3	44.7
0°-60°	1700.3	79.2
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	751	753	755	757	755	71
15°	722	724	726	728	726	204
25°	671	671	673	673	673	309
35°	597	597	597	597	599	374
45°	504	502	502	504	502	389
55°	397	393	393	393	395	354
65°	272	270	270	270	270	269
75°	140	140	138	138	138	148
85°	25	27	27	29	29	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.1	757.1	757.1	757.1	757.1
2.5°	753.0	755.1	757.1	759.2	757.1
5°	751.0	753.0	755.1	757.1	755.1
7.5°	746.9	748.9	751.0	753.0	751.0
10°	740.7	742.7	744.8	746.9	744.8
12.5°	732.5	734.5	736.6	736.6	736.6
15°	722.2	724.2	726.3	728.3	726.3
17.5°	711.9	713.9	716.0	716.0	716.0
20°	699.5	701.6	703.7	703.7	703.7
22.5°	685.1	687.2	689.2	689.2	689.2
25°	670.7	670.7	672.8	672.8	672.8
27.5°	654.3	654.3	654.3	656.3	656.3
30°	637.8	637.8	637.8	637.8	639.9
32.5°	619.3	619.3	617.2	619.3	619.3
35°	596.7	596.7	596.7	596.7	598.7
37.5°	578.1	574.0	576.1	576.1	576.1
40°	553.5	553.5	551.4	553.5	553.5
42.5°	528.8	528.8	528.8	528.8	528.8
45°	504.1	502.0	502.0	504.1	502.0
47.5°	479.4	477.3	477.3	477.3	477.3
50°	454.7	450.6	450.6	450.6	450.6
52.5°	425.9	421.8	421.8	421.8	423.8
55°	397.1	393.0	393.0	393.0	395.0
57.5°	366.2	364.2	362.1	364.2	364.2
60°	335.4	333.3	333.3	333.3	333.3
62.5°	304.5	302.4	300.4	300.4	302.4
65°	271.6	269.5	269.5	269.5	269.5
67.5°	238.7	236.6	236.6	236.6	236.6
70°	205.7	203.7	203.7	205.7	203.7
72.5°	172.8	170.8	170.8	170.8	170.8
75°	139.9	139.9	137.8	137.8	137.8
77.5°	107.0	107.0	107.0	107.0	107.0
80°	78.2	76.1	76.1	76.1	76.1
82.5°	47.3	47.3	49.4	49.4	49.4
85°	24.7	26.7	26.7	28.8	28.8
87.5°	8.2	10.3	12.3	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)