

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: P412161

Luminaire Tested: **MRI-2ASR-4-500-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412161
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-4-500-L940-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1738.0 lumens
Efficiency: N/A
Efficacy: 40.0 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

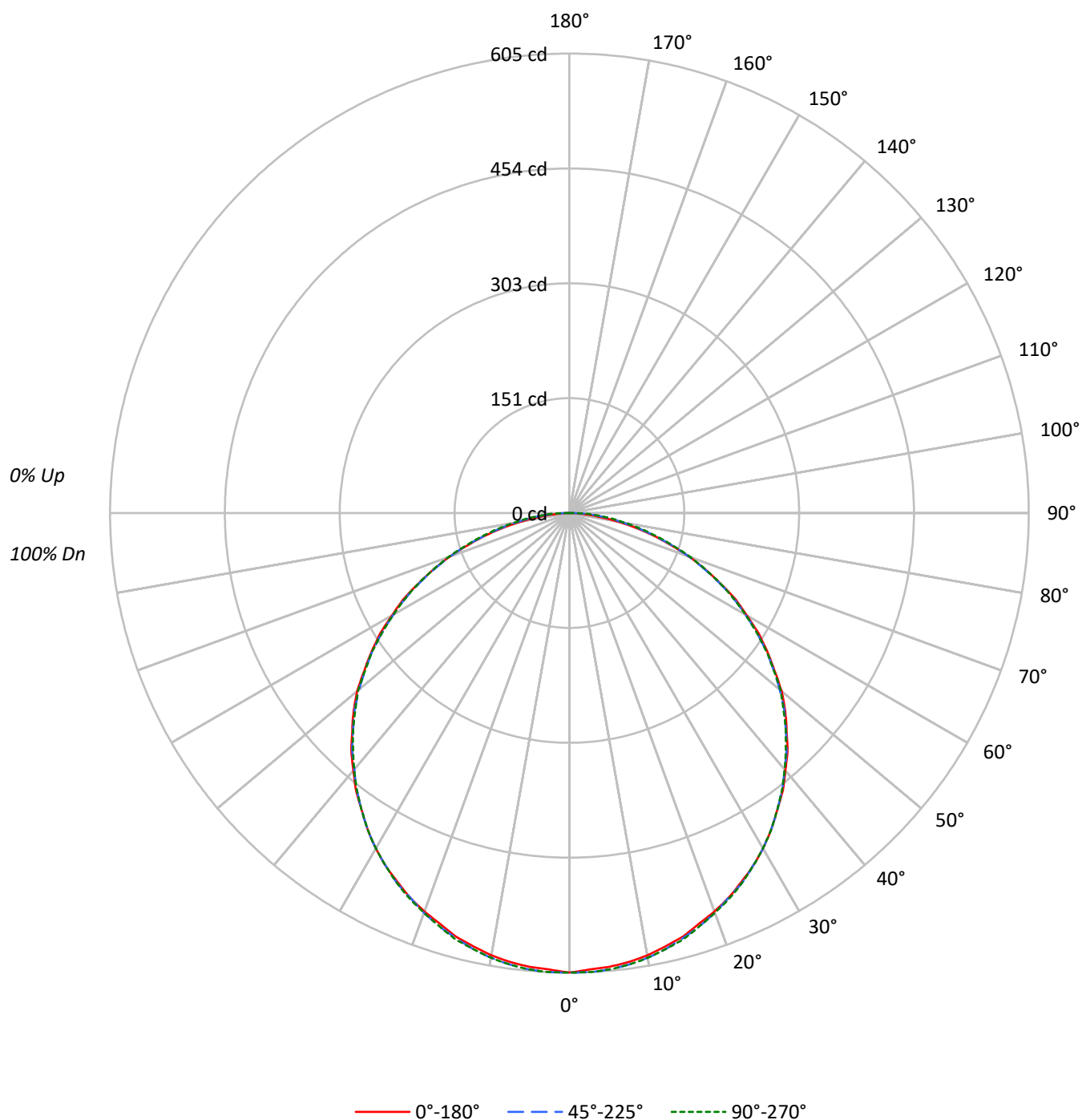
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	70	64		75	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	58	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°	9768	9768	9768
5°	9721	9778	9778
10°	9693	9748	9748
15°	9650	9680	9708
20°	9593	9624	9624
25°	9547	9577	9577
30°	9506	9506	9506
35°	9404	9404	9404
40°	9327	9291	9291
45°	9236	9197	9197
50°	9161	9075	9118
55°	8954	8904	8904
60°	8709	8651	8651
65°	8386	8321	8386
70°	7917	7917	7997
75°	7118	7224	7442
80°	5951	6592	6908
85°	4168	6410	6725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.3
10°-20°	163.5	9.4
20°-30°	247.5	14.2
30°-40°	298.8	17.2
40°-50°	311.3	17.9
50°-60°	282.7	16.3
60°-70°	216.2	12.4
70°-80°	123.8	7.1
80°-90°	37.0	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°	468.2	26.9
0°-40°	767.0	44.1
0°-60°	1361.1	78.3
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	600	602	603	603	603	57
15°	577	579	579	581	581	163
25°	536	536	538	538	538	247
35°	477	479	477	477	477	299
45°	404	404	403	403	403	313
55°	318	316	316	316	316	284
65°	220	220	218	218	220	217
75°	114	114	116	118	119	121
85°	22	28	35	35	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.0	605.0	605.0	605.0	605.0
2.5°	601.5	603.3	605.0	606.7	605.0
5°	599.8	601.5	603.3	603.3	603.3
7.5°	596.4	598.1	599.8	599.8	599.8
10°	591.2	592.9	594.6	594.6	594.6
12.5°	584.3	586.0	587.7	587.7	587.7
15°	577.3	579.1	579.1	580.8	580.8
17.5°	567.0	570.4	570.4	572.2	570.4
20°	558.3	560.1	560.1	560.1	560.1
22.5°	548.0	549.7	548.0	549.7	549.7
25°	535.9	535.9	537.6	537.6	537.6
27.5°	523.8	523.8	523.8	523.8	523.8
30°	509.9	509.9	509.9	509.9	509.9
32.5°	494.4	494.4	494.4	494.4	494.4
35°	477.1	478.8	477.1	477.1	477.1
37.5°	461.5	461.5	459.8	459.8	459.8
40°	442.5	442.5	440.8	440.8	440.8
42.5°	425.2	423.5	423.5	421.8	421.8
45°	404.5	404.5	402.8	402.8	402.8
47.5°	385.5	383.7	383.7	383.7	382.0
50°	364.7	363.0	361.3	361.3	363.0
52.5°	340.5	340.5	338.8	338.8	338.8
55°	318.1	316.3	316.3	316.3	316.3
57.5°	295.6	292.1	292.1	293.9	292.1
60°	269.7	267.9	267.9	267.9	267.9
62.5°	247.2	243.7	243.7	243.7	243.7
65°	219.5	219.5	217.8	217.8	219.5
67.5°	193.6	193.6	191.9	193.6	193.6
70°	167.7	165.9	167.7	167.7	169.4
72.5°	140.0	141.7	141.7	141.7	143.5
75°	114.1	114.1	115.8	117.5	119.3
77.5°	88.2	89.9	93.3	95.1	96.8
80°	64.0	67.4	70.9	74.3	74.3
82.5°	41.5	44.9	51.9	57.0	57.0
85°	22.5	27.7	34.6	34.6	36.3
87.5°	8.6	13.8	19.0	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)