

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: P412269

Luminaire Tested: **MRI-4ASR-8-500-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412269
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-8-500-L940-OPL
Description: 8 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (672) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

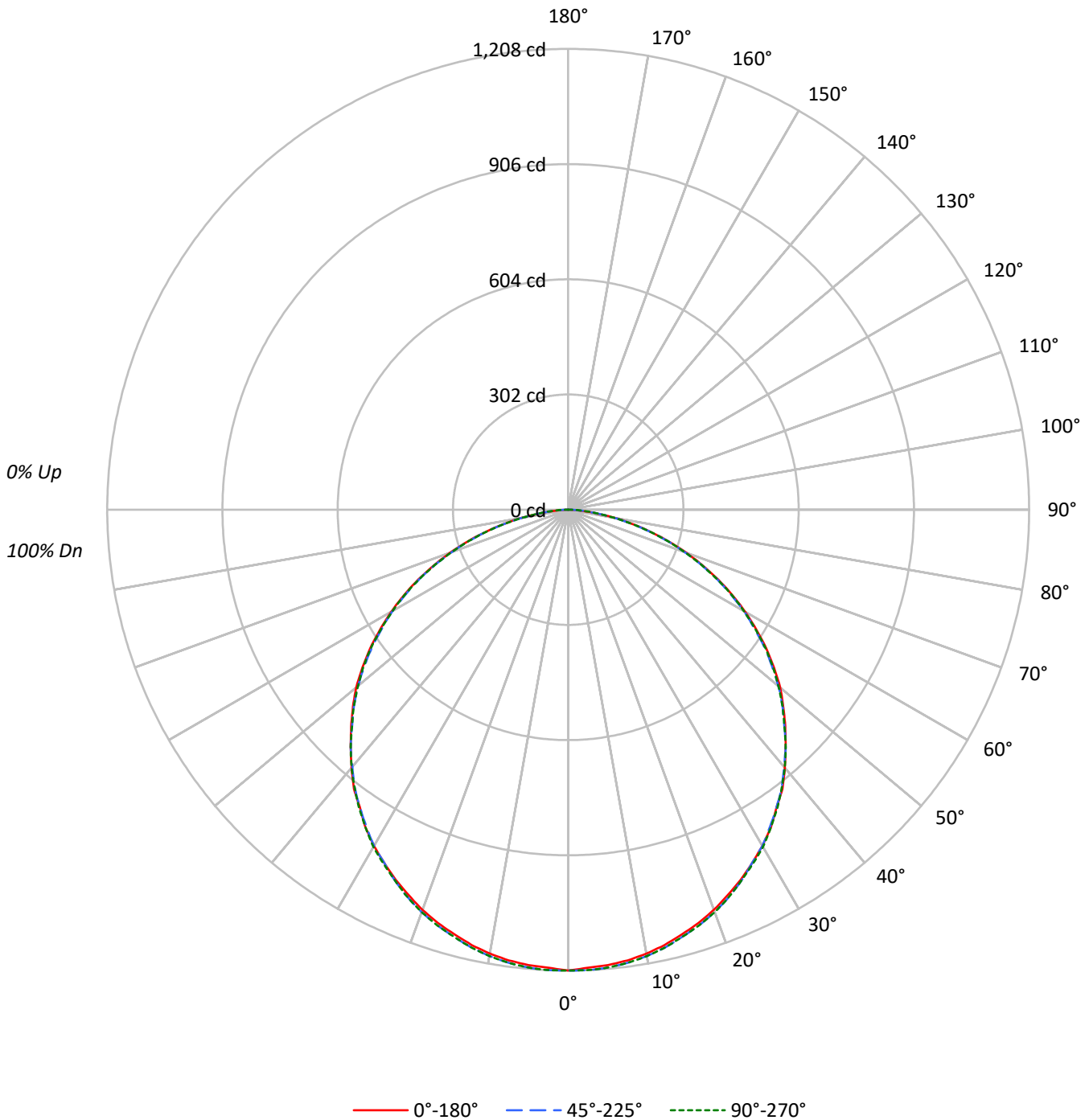
Lumens per Lamp: N/A
Luminaire Lumens: 3427.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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	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°	4876	4876	4876
5°	4855	4881	4881
10°	4843	4871	4871
15°	4815	4842	4842
20°	4794	4822	4822
25°	4766	4781	4781
30°	4743	4743	4758
35°	4691	4691	4707
40°	4653	4635	4653
45°	4591	4572	4572
50°	4555	4514	4514
55°	4458	4412	4435
60°	4320	4293	4293
65°	4138	4107	4107
70°	3875	3836	3836
75°	3481	3430	3430
80°	2899	2824	2824
85°	1825	1978	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.3
10°-20°	326.9	9.5
20°-30°	494.4	14.4
30°-40°	596.4	17.4
40°-50°	619.5	18.1
50°-60°	561.1	16.4
60°-70°	425.2	12.4
70°-80°	234.3	6.8
80°-90°	54.8	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°	935.7	27.3
0°-40°	1532.1	44.7
0°-60°	2712.8	79.2
0°-90°	3427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1198	1201	1205	1208	1205	114
15°	1152	1156	1159	1162	1159	325
25°	1070	1070	1073	1073	1073	493
35°	952	952	952	952	955	597
45°	804	801	801	804	801	621
55°	634	627	627	627	630	565
65°	433	430	430	430	430	428
75°	223	223	220	220	220	236
85°	39	43	43	46	46	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1201.4	1204.7	1208.0	1211.3	1208.0
5°	1198.1	1201.4	1204.7	1208.0	1204.7
7.5°	1191.6	1194.8	1198.1	1201.4	1198.1
10°	1181.7	1185.0	1188.3	1191.6	1188.3
12.5°	1168.6	1171.9	1175.2	1175.2	1175.2
15°	1152.2	1155.5	1158.7	1162.0	1158.7
17.5°	1135.8	1139.0	1142.3	1142.3	1142.3
20°	1116.1	1119.4	1122.6	1122.6	1122.6
22.5°	1093.1	1096.4	1099.7	1099.7	1099.7
25°	1070.1	1070.1	1073.4	1073.4	1073.4
27.5°	1043.9	1043.9	1043.9	1047.1	1047.1
30°	1017.6	1017.6	1017.6	1017.6	1020.9
32.5°	988.0	988.0	984.8	988.0	988.0
35°	951.9	951.9	951.9	951.9	955.2
37.5°	922.4	915.8	919.1	919.1	919.1
40°	883.0	883.0	879.7	883.0	883.0
42.5°	843.6	843.6	843.6	843.6	843.6
45°	804.2	800.9	800.9	804.2	800.9
47.5°	764.8	761.6	761.6	761.6	761.6
50°	725.4	718.9	718.9	718.9	718.9
52.5°	679.5	672.9	672.9	672.9	676.2
55°	633.5	627.0	627.0	627.0	630.2
57.5°	584.3	581.0	577.7	581.0	581.0
60°	535.1	531.8	531.8	531.8	531.8
62.5°	485.8	482.5	479.3	479.3	482.5
65°	433.3	430.0	430.0	430.0	430.0
67.5°	380.8	377.5	377.5	377.5	377.5
70°	328.3	325.0	325.0	328.3	325.0
72.5°	275.7	272.5	272.5	272.5	272.5
75°	223.2	223.2	219.9	219.9	219.9
77.5°	170.7	170.7	170.7	170.7	170.7
80°	124.7	121.5	121.5	121.5	121.5
82.5°	75.5	75.5	78.8	78.8	78.8
85°	39.4	42.7	42.7	46.0	46.0
87.5°	13.1	16.4	19.7	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)