

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: P412257

Luminaire Tested: **MRI-4ASR-8-250-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412257
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-8-250-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: 1717.0 lumens
Efficiency: N/A
Efficacy: 57.6 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

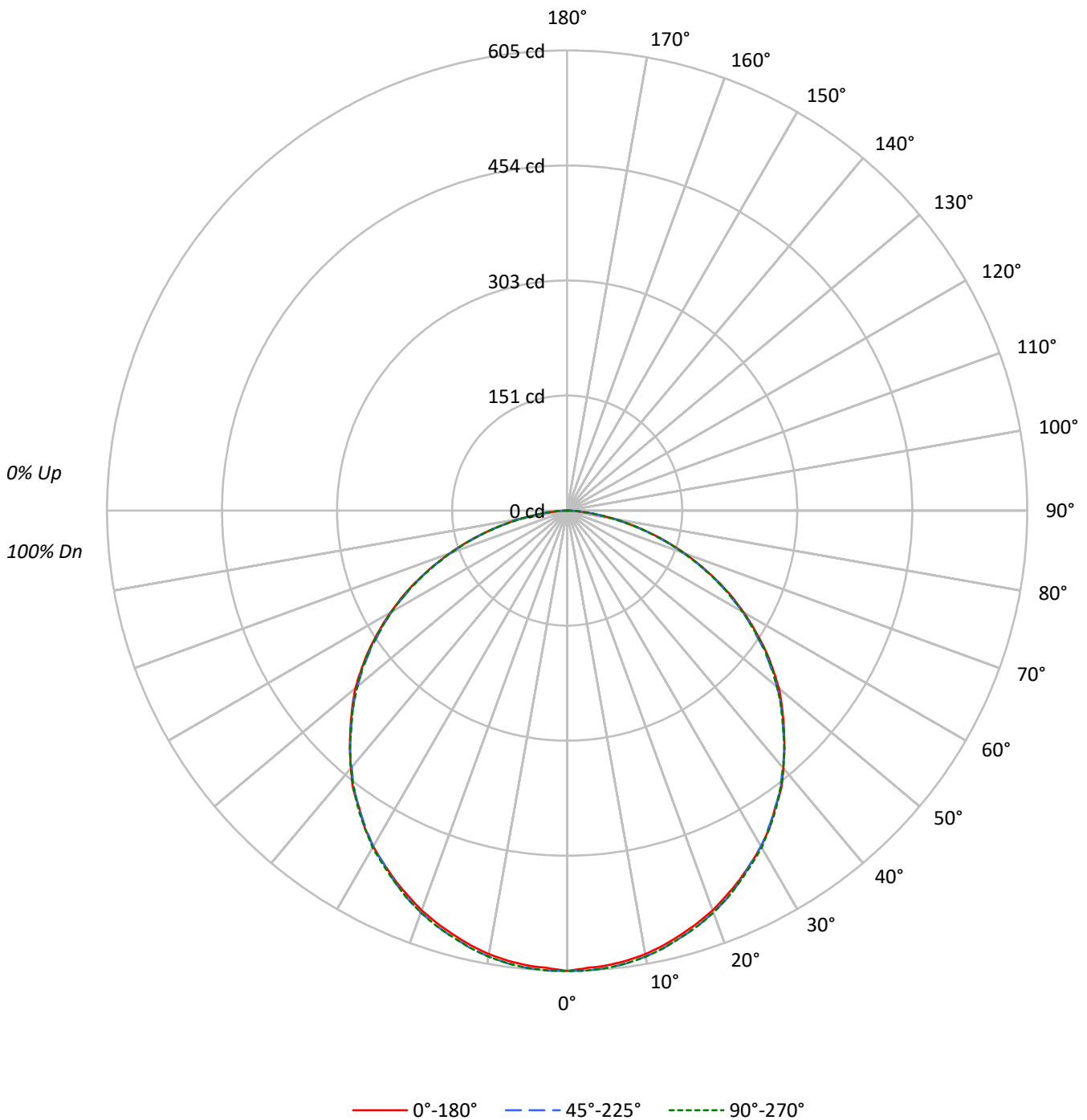
Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2443	2443	2443
5°	2432	2446	2446
10°	2427	2440	2440
15°	2412	2426	2426
20°	2402	2416	2416
25°	2388	2395	2395
30°	2376	2376	2384
35°	2350	2350	2358
40°	2331	2323	2331
45°	2300	2291	2291
50°	2283	2262	2262
55°	2234	2210	2222
60°	2164	2151	2151
65°	2074	2057	2057
70°	1941	1921	1921
75°	1744	1719	1719
80°	1453	1416	1416
85°	912	991	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.3
10°-20°	163.8	9.5
20°-30°	247.7	14.4
30°-40°	298.8	17.4
40°-50°	310.4	18.1
50°-60°	281.1	16.4
60°-70°	213.0	12.4
70°-80°	117.4	6.8
80°-90°	27.4	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°	468.8	27.3
0°-40°	767.6	44.7
0°-60°	1359.2	79.2
0°-90°	1717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	600	602	604	605	604	57
15°	577	579	581	582	581	163
25°	536	536	538	538	538	247
35°	477	477	477	477	479	299
45°	403	401	401	403	401	311
55°	317	314	314	314	316	283
65°	217	215	215	215	215	215
75°	112	112	110	110	110	118
85°	20	21	21	23	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.2	605.2	605.2	605.2	605.2
2.5°	601.9	603.6	605.2	606.9	605.2
5°	600.3	601.9	603.6	605.2	603.6
7.5°	597.0	598.6	600.3	601.9	600.3
10°	592.1	593.7	595.4	597.0	595.4
12.5°	585.5	587.1	588.8	588.8	588.8
15°	577.3	578.9	580.6	582.2	580.6
17.5°	569.0	570.7	572.3	572.3	572.3
20°	559.2	560.8	562.5	562.5	562.5
22.5°	547.7	549.3	551.0	551.0	551.0
25°	536.1	536.1	537.8	537.8	537.8
27.5°	523.0	523.0	523.0	524.6	524.6
30°	509.8	509.8	509.8	509.8	511.5
32.5°	495.0	495.0	493.4	495.0	495.0
35°	476.9	476.9	476.9	476.9	478.6
37.5°	462.1	458.9	460.5	460.5	460.5
40°	442.4	442.4	440.8	442.4	442.4
42.5°	422.7	422.7	422.7	422.7	422.7
45°	402.9	401.3	401.3	402.9	401.3
47.5°	383.2	381.6	381.6	381.6	381.6
50°	363.5	360.2	360.2	360.2	360.2
52.5°	340.4	337.1	337.1	337.1	338.8
55°	317.4	314.1	314.1	314.1	315.8
57.5°	292.7	291.1	289.5	291.1	291.1
60°	268.1	266.4	266.4	266.4	266.4
62.5°	243.4	241.8	240.1	240.1	241.8
65°	217.1	215.4	215.4	215.4	215.4
67.5°	190.8	189.1	189.1	189.1	189.1
70°	164.5	162.8	162.8	164.5	162.8
72.5°	138.1	136.5	136.5	136.5	136.5
75°	111.8	111.8	110.2	110.2	110.2
77.5°	85.5	85.5	85.5	85.5	85.5
80°	62.5	60.9	60.9	60.9	60.9
82.5°	37.8	37.8	39.5	39.5	39.5
85°	19.7	21.4	21.4	23.0	23.0
87.5°	6.6	8.2	9.9	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)