

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: P412183

Luminaire Tested: **MRI-4ASR-4-250-L935-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412183
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-4-250-L935-OPL
Description: 4 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

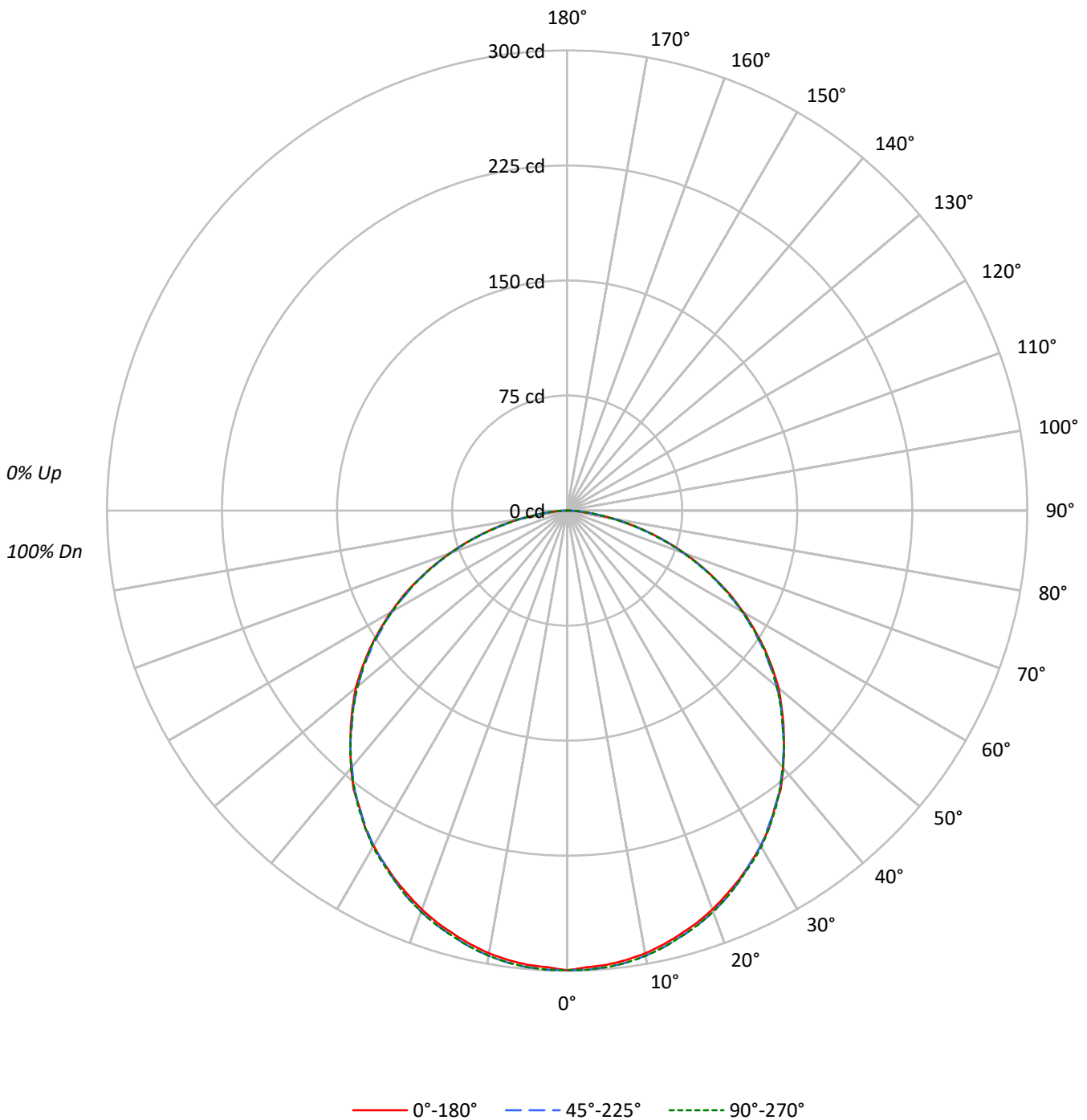
Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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°	2419	2419	2419
5°	2408	2421	2421
10°	2403	2416	2416
15°	2389	2402	2402
20°	2378	2392	2392
25°	2364	2371	2371
30°	2353	2353	2360
35°	2327	2327	2335
40°	2308	2299	2308
45°	2278	2269	2269
50°	2259	2239	2239
55°	2211	2189	2200
60°	2143	2130	2130
65°	2053	2038	2038
70°	1921	1902	1902
75°	1728	1700	1700
80°	1437	1399	1399
85°	908	982	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	3.3
10°-20°	81.1	9.5
20°-30°	122.6	14.4
30°-40°	147.9	17.4
40°-50°	153.7	18.1
50°-60°	139.2	16.4
60°-70°	105.5	12.4
70°-80°	58.1	6.8
80°-90°	13.6	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°	232.1	27.3
0°-40°	380.0	44.7
0°-60°	672.8	79.2
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	297	298	299	300	299	28
15°	286	287	287	288	287	81
25°	265	265	266	266	266	122
35°	236	236	236	236	237	148
45°	200	199	199	200	199	154
55°	157	156	156	156	156	140
65°	108	107	107	107	107	106
75°	55	55	54	54	54	59
85°	10	11	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	299.6	299.6	299.6	299.6	299.6
2.5°	298.0	298.8	299.6	300.4	299.6
5°	297.2	298.0	298.8	299.6	298.8
7.5°	295.5	296.4	297.2	298.0	297.2
10°	293.1	293.9	294.7	295.5	294.7
12.5°	289.8	290.7	291.5	291.5	291.5
15°	285.8	286.6	287.4	288.2	287.4
17.5°	281.7	282.5	283.3	283.3	283.3
20°	276.8	277.6	278.4	278.4	278.4
22.5°	271.1	271.9	272.7	272.7	272.7
25°	265.4	265.4	266.2	266.2	266.2
27.5°	258.9	258.9	258.9	259.7	259.7
30°	252.4	252.4	252.4	252.4	253.2
32.5°	245.1	245.1	244.3	245.1	245.1
35°	236.1	236.1	236.1	236.1	236.9
37.5°	228.8	227.2	228.0	228.0	228.0
40°	219.0	219.0	218.2	219.0	219.0
42.5°	209.2	209.2	209.2	209.2	209.2
45°	199.5	198.7	198.7	199.5	198.7
47.5°	189.7	188.9	188.9	188.9	188.9
50°	179.9	178.3	178.3	178.3	178.3
52.5°	168.5	166.9	166.9	166.9	167.7
55°	157.1	155.5	155.5	155.5	156.3
57.5°	144.9	144.1	143.3	144.1	144.1
60°	132.7	131.9	131.9	131.9	131.9
62.5°	120.5	119.7	118.9	118.9	119.7
65°	107.5	106.7	106.7	106.7	106.7
67.5°	94.4	93.6	93.6	93.6	93.6
70°	81.4	80.6	80.6	81.4	80.6
72.5°	68.4	67.6	67.6	67.6	67.6
75°	55.4	55.4	54.5	54.5	54.5
77.5°	42.3	42.3	42.3	42.3	42.3
80°	30.9	30.1	30.1	30.1	30.1
82.5°	18.7	18.7	19.5	19.5	19.5
85°	9.8	10.6	10.6	11.4	11.4
87.5°	3.3	4.1	4.9	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)