

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: P412125

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

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412125
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-2-500-L940-OPL
Description: 2 FT, 4 INCH CHANNEL, OPAL LENS
Light Source: (196) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

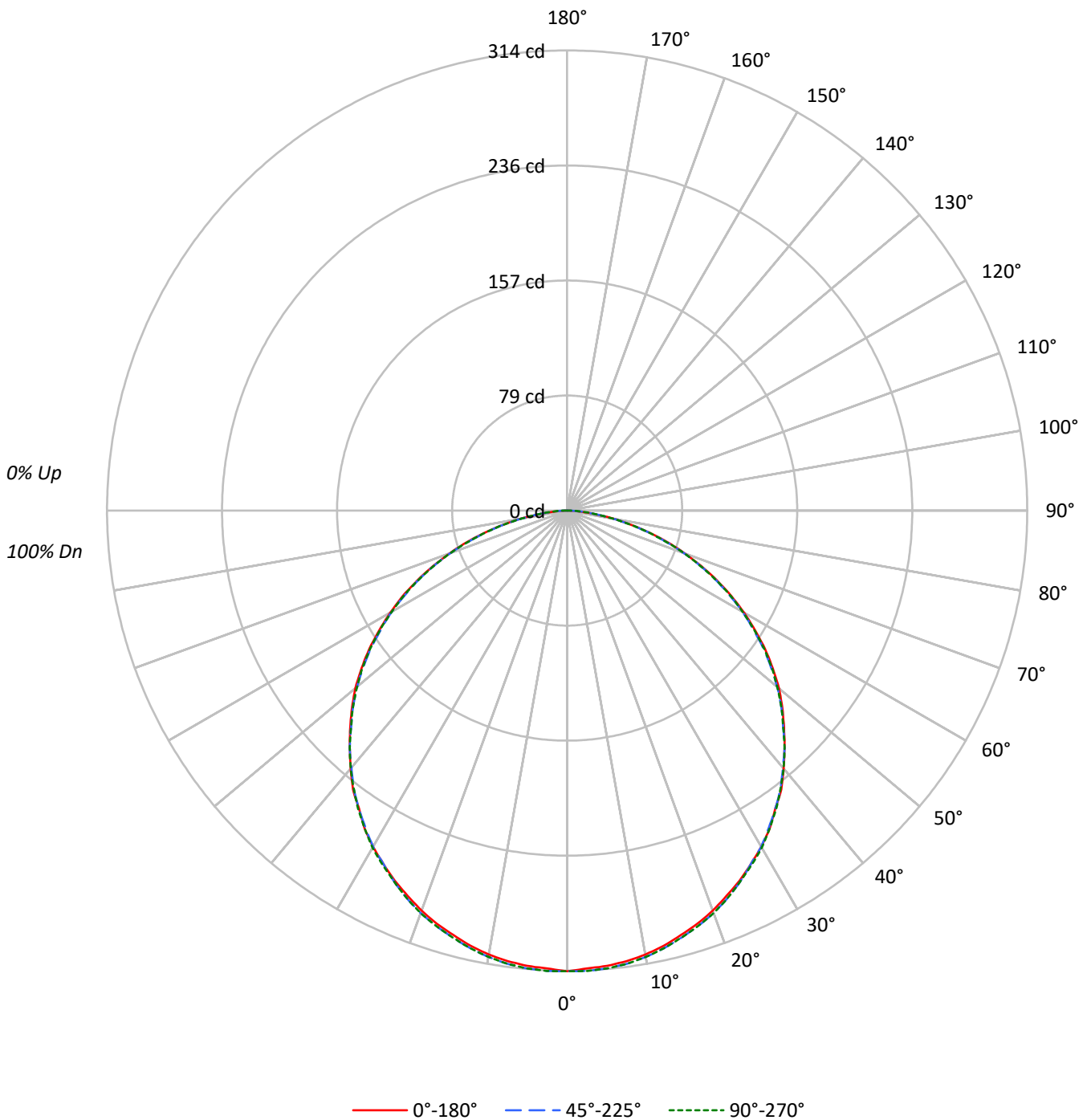
Lumens per Lamp: N/A
Luminaire Lumens: 892.0 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.1
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



TEST NUMBER: P412125
CATALOG NUMBER: MRI-4ASR-2-500-L940-OPL

Luminous Intensity Polar Plot





TEST NUMBER: P412125

CATALOG NUMBER: MRI-4ASR-2-500-L940-OPL

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	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					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°	5076	5076	5076
5°	5055	5083	5083
10°	5043	5071	5071
15°	5013	5041	5041
20°	4991	5021	5021
25°	4961	4978	4978
30°	4939	4939	4954
35°	4884	4884	4900
40°	4843	4827	4843
45°	4779	4761	4761
50°	4742	4700	4700
55°	4642	4594	4617
60°	4498	4469	4469
65°	4309	4275	4275
70°	4032	3994	3994
75°	3624	3568	3568
80°	3022	2938	2938
85°	1908	2056	2223



TEST NUMBER: P412125

CATALOG NUMBER: MRI-4ASR-2-500-L940-OPL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	3.3
10°-20°	85.1	9.5
20°-30°	128.7	14.4
30°-40°	155.2	17.4
40°-50°	161.3	18.1
50°-60°	146.1	16.4
60°-70°	110.7	12.4
70°-80°	61.0	6.8
80°-90°	14.3	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°	243.6	27.3
0°-40°	398.8	44.7
0°-60°	706.1	79.2
0°-90°	892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	314	314	314	314	314	
5°	312	313	314	314	314	30
15°	300	301	302	302	302	85
25°	278	278	279	279	279	128
35°	248	248	248	248	249	155
45°	209	208	208	209	208	162
55°	165	163	163	163	164	147
65°	113	112	112	112	112	112
75°	58	58	57	57	57	61
85°	10	11	11	12	12	13
90°	0	0	0	0	0	



TEST NUMBER: P412125

CATALOG NUMBER: MRI-4ASR-2-500-L940-OPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	314.4	314.4	314.4	314.4	314.4
2.5°	312.7	313.6	314.4	315.3	314.4
5°	311.9	312.7	313.6	314.4	313.6
7.5°	310.1	311.0	311.9	312.7	311.9
10°	307.6	308.4	309.3	310.1	309.3
12.5°	304.2	305.0	305.9	305.9	305.9
15°	299.9	300.7	301.6	302.5	301.6
17.5°	295.6	296.5	297.3	297.3	297.3
20°	290.5	291.4	292.2	292.2	292.2
22.5°	284.5	285.4	286.2	286.2	286.2
25°	278.5	278.5	279.4	279.4	279.4
27.5°	271.7	271.7	271.7	272.6	272.6
30°	264.9	264.9	264.9	264.9	265.7
32.5°	257.2	257.2	256.3	257.2	257.2
35°	247.8	247.8	247.8	247.8	248.6
37.5°	240.1	238.4	239.2	239.2	239.2
40°	229.8	229.8	229.0	229.8	229.8
42.5°	219.6	219.6	219.6	219.6	219.6
45°	209.3	208.5	208.5	209.3	208.5
47.5°	199.1	198.2	198.2	198.2	198.2
50°	188.8	187.1	187.1	187.1	187.1
52.5°	176.9	175.2	175.2	175.2	176.0
55°	164.9	163.2	163.2	163.2	164.0
57.5°	152.1	151.2	150.4	151.2	151.2
60°	139.3	138.4	138.4	138.4	138.4
62.5°	126.5	125.6	124.7	124.7	125.6
65°	112.8	111.9	111.9	111.9	111.9
67.5°	99.1	98.3	98.3	98.3	98.3
70°	85.4	84.6	84.6	85.4	84.6
72.5°	71.8	70.9	70.9	70.9	70.9
75°	58.1	58.1	57.2	57.2	57.2
77.5°	44.4	44.4	44.4	44.4	44.4
80°	32.5	31.6	31.6	31.6	31.6
82.5°	19.7	19.7	20.5	20.5	20.5
85°	10.3	11.1	11.1	12.0	12.0
87.5°	3.4	4.3	5.1	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)