

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: P412065

Luminaire Tested: **MRI-2ASR-2-1000-L940-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412065
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-2-1000-L940-OPL
Description: 2 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.0 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

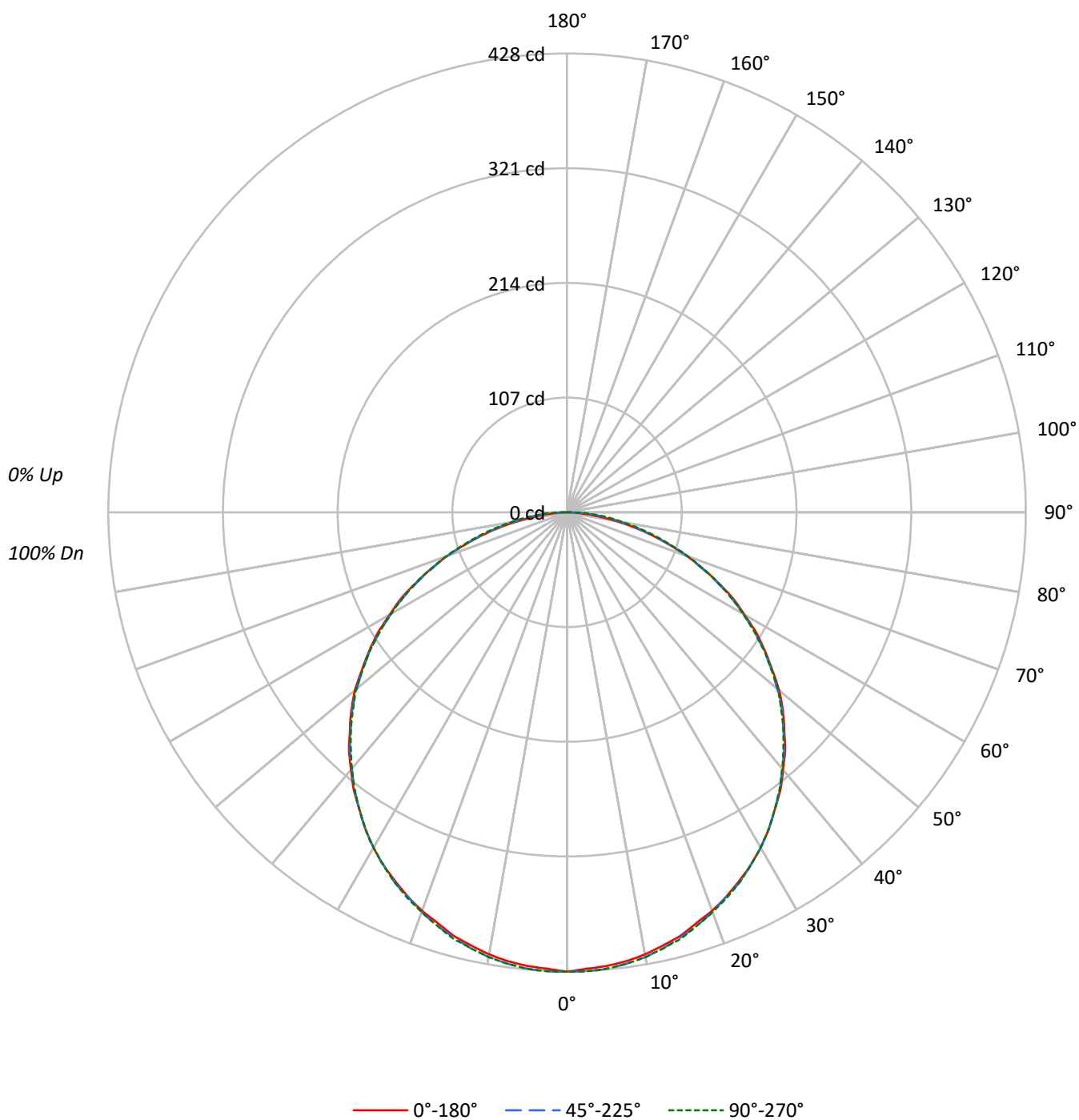
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	57	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°	13837	13837	13837
5°	13770	13851	13851
10°	13729	13811	13811
15°	13670	13710	13753
20°	13591	13632	13632
25°	13522	13568	13568
30°	13468	13468	13468
35°	13320	13320	13320
40°	13211	13160	13160
45°	13084	13029	13029
50°	12976	12856	12916
55°	12684	12617	12617
60°	12335	12258	12258
65°	11882	11790	11882
70°	11216	11216	11330
75°	10081	10231	10543
80°	8424	9335	9782
85°	5891	9077	9522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	3.3
10°-20°	115.8	9.4
20°-30°	175.3	14.2
30°-40°	211.7	17.2
40°-50°	220.5	17.9
50°-60°	200.3	16.3
60°-70°	153.1	12.4
70°-80°	87.7	7.1
80°-90°	26.2	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°	331.6	26.9
0°-40°	543.3	44.1
0°-60°	964.0	78.3
0°-90°	1231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	425	426	427	427	427	40
15°	409	410	410	411	411	115
25°	380	380	381	381	381	175
35°	338	339	338	338	338	212
45°	286	286	285	285	285	221
55°	225	224	224	224	224	201
65°	156	156	154	154	156	154
75°	81	81	82	83	84	86
85°	16	20	24	24	26	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.5	428.5	428.5	428.5	428.5
2.5°	426.1	427.3	428.5	429.7	428.5
5°	424.8	426.1	427.3	427.3	427.3
7.5°	422.4	423.6	424.8	424.8	424.8
10°	418.7	419.9	421.2	421.2	421.2
12.5°	413.8	415.0	416.3	416.3	416.3
15°	408.9	410.1	410.1	411.4	411.4
17.5°	401.6	404.0	404.0	405.2	404.0
20°	395.5	396.7	396.7	396.7	396.7
22.5°	388.1	389.3	388.1	389.3	389.3
25°	379.5	379.5	380.8	380.8	380.8
27.5°	371.0	371.0	371.0	371.0	371.0
30°	361.2	361.2	361.2	361.2	361.2
32.5°	350.2	350.2	350.2	350.2	350.2
35°	337.9	339.1	337.9	337.9	337.9
37.5°	326.9	326.9	325.7	325.7	325.7
40°	313.4	313.4	312.2	312.2	312.2
42.5°	301.2	300.0	300.0	298.7	298.7
45°	286.5	286.5	285.3	285.3	285.3
47.5°	273.0	271.8	271.8	271.8	270.6
50°	258.3	257.1	255.9	255.9	257.1
52.5°	241.2	241.2	240.0	240.0	240.0
55°	225.3	224.1	224.1	224.1	224.1
57.5°	209.4	206.9	206.9	208.1	206.9
60°	191.0	189.8	189.8	189.8	189.8
62.5°	175.1	172.6	172.6	172.6	172.6
65°	155.5	155.5	154.3	154.3	155.5
67.5°	137.1	137.1	135.9	137.1	137.1
70°	118.8	117.5	118.8	118.8	120.0
72.5°	99.2	100.4	100.4	100.4	101.6
75°	80.8	80.8	82.0	83.3	84.5
77.5°	62.4	63.7	66.1	67.3	68.6
80°	45.3	47.7	50.2	52.6	52.6
82.5°	29.4	31.8	36.7	40.4	40.4
85°	15.9	19.6	24.5	24.5	25.7
87.5°	6.1	9.8	13.5	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)