

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: P412133

Luminaire Tested: **MRI-2ASR-4-1000-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412133
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-4-1000-L850-OPL
Description: 4 FT, 2 INCH CHANNEL, OPAL LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.0 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

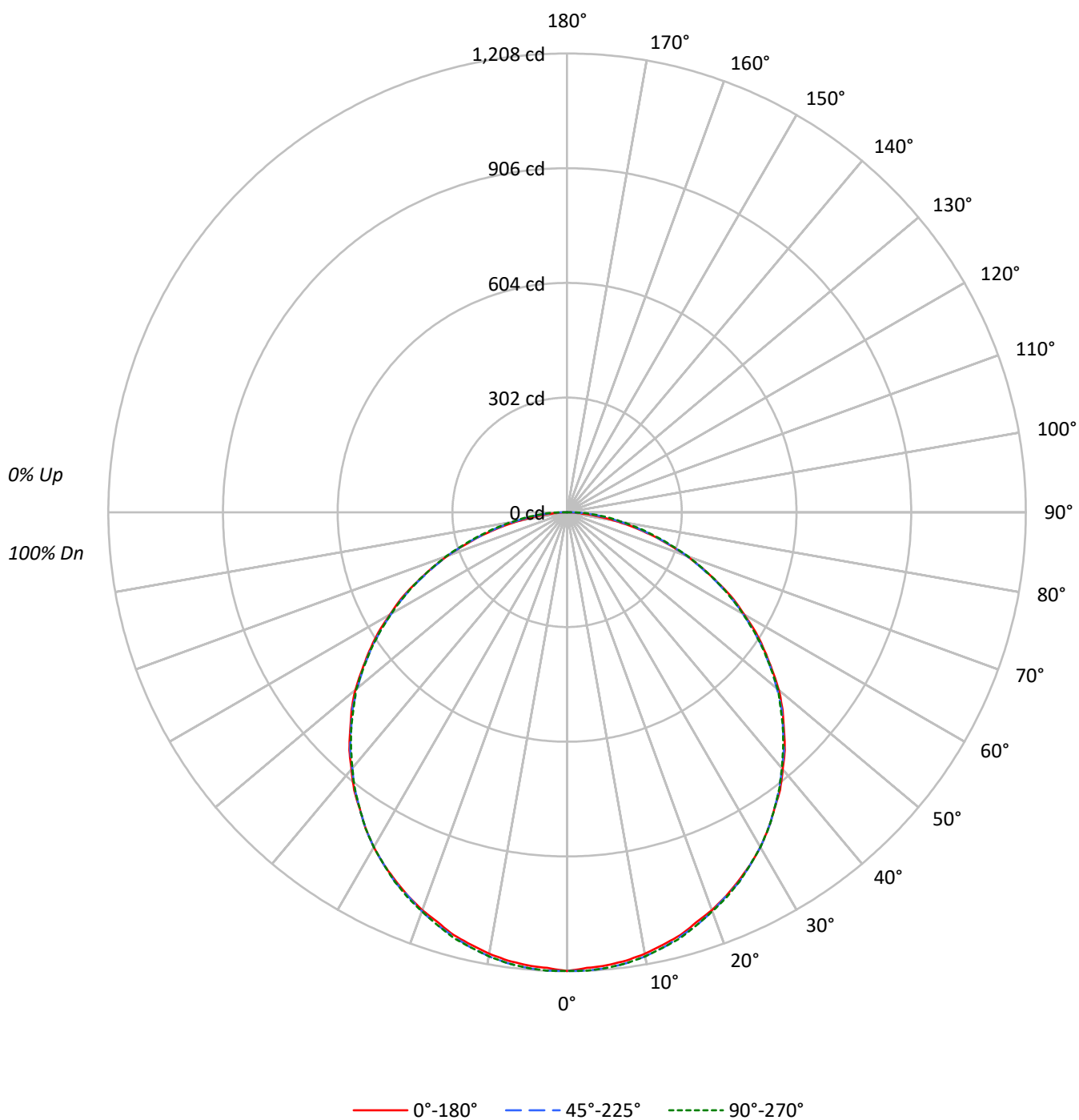
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		69
3	90	79	71	64	87	78	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19498	19498	19498
5°	19404	19515	19515
10°	19346	19459	19459
15°	19263	19320	19378
20°	19148	19208	19208
25°	19055	19115	19115
30°	18975	18975	18975
35°	18768	18768	18768
40°	18615	18543	18543
45°	18434	18356	18356
50°	18286	18113	18198
55°	17869	17774	17774
60°	17379	17270	17270
65°	16741	16607	16741
70°	15800	15800	15961
75°	14205	14423	14853
80°	11874	13157	13798
85°	8318	12782	13431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.3
10°-20°	326.3	9.4
20°-30°	494.0	14.2
30°-40°	596.4	17.2
40°-50°	621.3	17.9
50°-60°	564.4	16.3
60°-70°	431.5	12.4
70°-80°	247.1	7.1
80°-90°	73.8	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°	934.5	26.9
0°-40°	1530.9	44.1
0°-60°	2716.6	78.3
0°-90°	3469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1197	1201	1204	1204	1204	114
15°	1152	1156	1156	1159	1159	325
25°	1070	1070	1073	1073	1073	493
35°	952	956	952	952	952	597
45°	807	807	804	804	804	624
55°	635	631	631	631	631	568
65°	438	438	435	435	438	434
75°	228	228	231	235	238	241
85°	45	55	69	69	72	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1200.7	1204.1	1207.6	1211.0	1207.6
5°	1197.2	1200.7	1204.1	1204.1	1204.1
7.5°	1190.3	1193.8	1197.2	1197.2	1197.2
10°	1180.0	1183.4	1186.9	1186.9	1186.9
12.5°	1166.2	1169.6	1173.1	1173.1	1173.1
15°	1152.4	1155.8	1155.8	1159.3	1159.3
17.5°	1131.7	1138.6	1138.6	1142.0	1138.6
20°	1114.4	1117.9	1117.9	1117.9	1117.9
22.5°	1093.7	1097.2	1093.7	1097.2	1097.2
25°	1069.6	1069.6	1073.0	1073.0	1073.0
27.5°	1045.4	1045.4	1045.4	1045.4	1045.4
30°	1017.8	1017.8	1017.8	1017.8	1017.8
32.5°	986.7	986.7	986.7	986.7	986.7
35°	952.2	955.7	952.2	952.2	952.2
37.5°	921.2	921.2	917.7	917.7	917.7
40°	883.2	883.2	879.8	879.8	879.8
42.5°	848.7	845.3	845.3	841.8	841.8
45°	807.3	807.3	803.9	803.9	803.9
47.5°	769.4	765.9	765.9	765.9	762.5
50°	728.0	724.5	721.1	721.1	724.5
52.5°	679.7	679.7	676.2	676.2	676.2
55°	634.8	631.4	631.4	631.4	631.4
57.5°	590.0	583.1	583.1	586.5	583.1
60°	538.2	534.8	534.8	534.8	534.8
62.5°	493.4	486.5	486.5	486.5	486.5
65°	438.2	438.2	434.7	434.7	438.2
67.5°	386.4	386.4	383.0	386.4	386.4
70°	334.7	331.2	334.7	334.7	338.1
72.5°	279.5	282.9	282.9	282.9	286.4
75°	227.7	227.7	231.2	234.6	238.1
77.5°	176.0	179.4	186.3	189.8	193.2
80°	127.7	134.6	141.5	148.4	148.4
82.5°	82.8	89.7	103.5	113.9	113.9
85°	44.9	55.2	69.0	69.0	72.5
87.5°	17.3	27.6	38.0	48.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)