

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: P412076

Luminaire Tested: **MRI-2ASR-2-250-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-2-250-L940-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

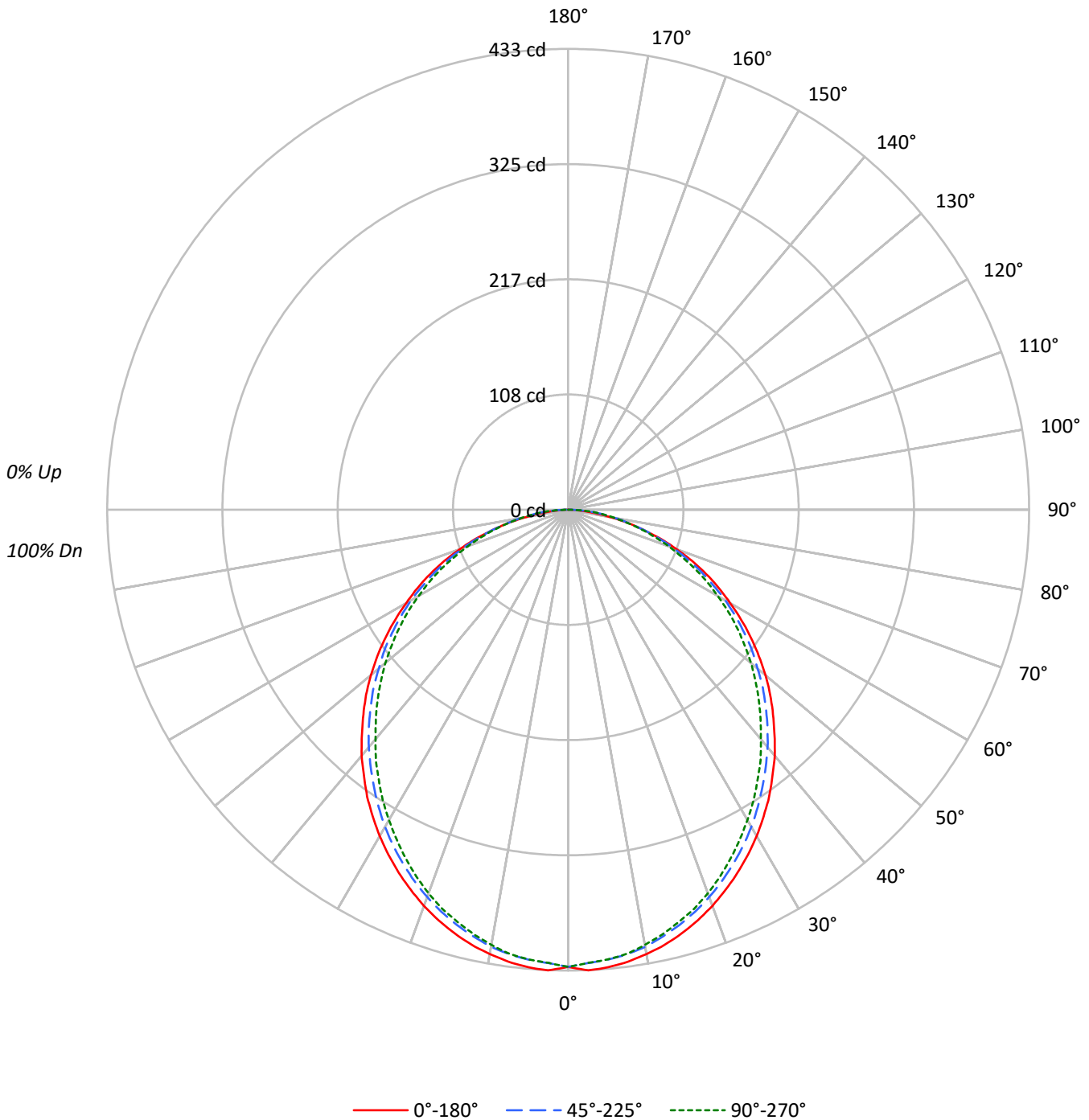
Lumens per Lamp: N/A
Luminaire Lumens: 1143.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	83	77	85	80	76		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13869	13869	13869
5°	13990	13760	13754
10°	13900	13673	13614
15°	13777	13503	13409
20°	13612	13309	13179
25°	13411	13076	12873
30°	13203	12831	12551
35°	12977	12540	12224
40°	12726	12284	11871
45°	12426	11988	11568
50°	12152	11665	11263
55°	11789	11372	10905
60°	11354	11005	10469
65°	10919	10514	10048
70°	10206	9895	9460
75°	9120	9145	8821
80°	7513	8219	8145
85°	5076	7818	8077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	3.5
10°-20°	114.5	10.0
20°-30°	169.7	14.9
30°-40°	199.6	17.5
40°-50°	202.8	17.7
50°-60°	180.4	15.8
60°-70°	136.0	11.9
70°-80°	77.3	6.8
80°-90°	22.1	1.9
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°	324.8	28.4
0°-40°	524.4	45.9
0°-60°	907.5	79.4
0°-90°	1143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	432	429	424	428	424	41
15°	412	409	404	405	401	116
25°	376	372	367	366	361	173
35°	329	325	318	314	310	206
45°	272	269	262	257	253	210
55°	209	207	202	196	194	187
65°	143	142	138	133	132	141
75°	73	74	73	71	71	78
85°	14	19	21	21	22	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.5	429.5	429.5	429.5	429.5
2.5°	433.3	430.4	426.4	429.7	426.2
5°	431.6	428.6	424.5	427.7	424.3
7.5°	428.5	425.5	421.4	424.3	421.0
10°	423.9	421.2	417.0	419.3	415.2
12.5°	418.8	415.3	410.9	412.9	408.8
15°	412.1	408.8	403.9	405.4	401.1
17.5°	404.6	400.8	396.1	396.9	393.2
20°	396.1	392.3	387.3	387.6	383.5
22.5°	386.6	383.1	377.7	376.7	372.9
25°	376.4	372.5	367.0	365.6	361.3
27.5°	365.5	361.8	355.9	353.7	349.1
30°	354.1	349.8	344.1	340.8	336.6
32.5°	341.6	337.7	331.3	327.3	324.0
35°	329.2	324.7	318.1	314.0	310.1
37.5°	315.1	310.9	304.7	300.6	296.7
40°	301.9	297.3	291.4	286.4	281.6
42.5°	286.8	283.5	277.0	272.0	267.4
45°	272.1	268.8	262.5	257.2	253.3
47.5°	257.4	254.0	248.0	242.3	238.5
50°	241.9	238.3	232.2	227.2	224.2
52.5°	225.8	223.2	217.8	212.1	208.7
55°	209.4	207.3	202.0	196.3	193.7
57.5°	192.9	191.1	186.3	180.8	178.3
60°	175.8	175.0	170.4	165.3	162.1
62.5°	159.7	158.5	153.7	150.0	147.1
65°	142.9	142.0	137.6	133.3	131.5
67.5°	126.0	124.9	120.8	117.9	115.1
70°	108.1	108.1	104.8	102.0	100.2
72.5°	91.2	91.3	89.1	86.2	85.3
75°	73.1	74.2	73.3	71.3	70.7
77.5°	57.2	58.1	58.2	57.6	56.6
80°	40.4	43.1	44.2	44.0	43.8
82.5°	25.9	30.2	32.2	32.1	32.4
85°	13.7	18.8	21.1	21.1	21.8
87.5°	4.7	9.6	10.3	9.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)