

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: P412072

Luminaire Tested: **MRI-2ASR-2-250-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412072
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-L850-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1440.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

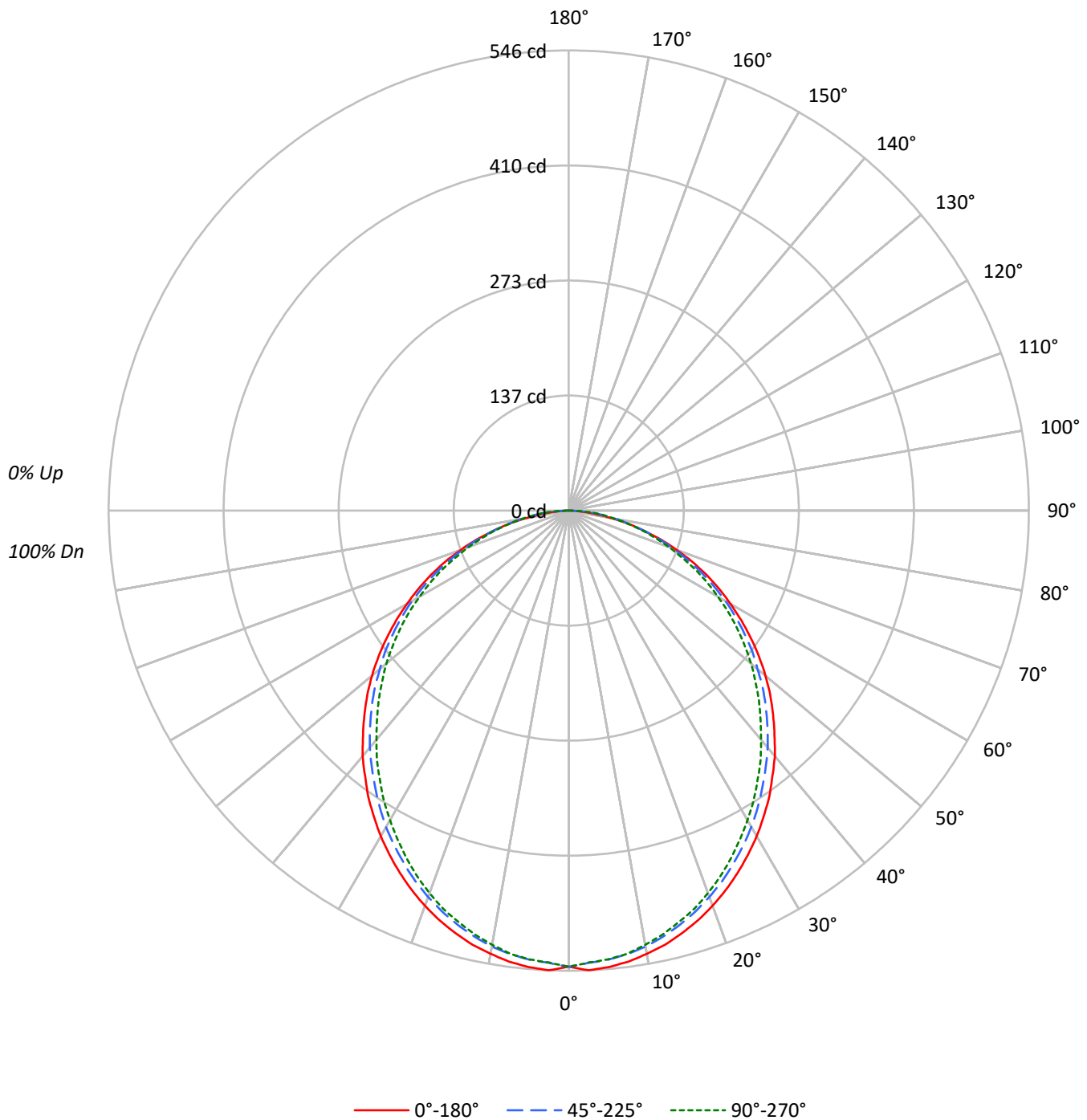
Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94		98	94	91		94	91	89		90	88	86
2	99	91	84	78	96	89	83	77		85	80	76		82	78	74		79	75	72
3	90	80	72	65	88	78	71	65		75	69	63		72	67	62		70	65	61
4	83	71	62	55	80	69	61	55		67	60	54		65	58	53		62	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	64	51	43	37		49	42	37		48	41	36		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	30		42	35	30		41	34	29		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17476	17476	17476
5°	17624	17339	17326
10°	17510	17224	17152
15°	17354	17013	16893
20°	17148	16766	16601
25°	16899	16472	16219
30°	16634	16164	15814
35°	16348	15796	15398
40°	16035	15475	14956
45°	15659	15102	14572
50°	15312	14694	14187
55°	14852	14328	13737
60°	14305	13866	13194
65°	13754	13249	12661
70°	12859	12472	11925
75°	11503	11516	11117
80°	9465	10339	10246
85°	6373	9855	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	3.5
10°-20°	144.3	10.0
20°-30°	213.8	14.9
30°-40°	251.5	17.5
40°-50°	255.5	17.7
50°-60°	227.3	15.8
60°-70°	171.4	11.9
70°-80°	97.4	6.8
80°-90°	27.9	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°	409.2	28.4
0°-40°	660.7	45.9
0°-60°	1143.4	79.4
0°-90°	1440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	544	540	535	539	534	52
15°	519	515	509	511	505	146
25°	474	469	462	461	455	218
35°	415	409	401	396	391	259
45°	343	339	331	324	319	265
55°	264	261	254	247	244	236
65°	180	179	173	168	166	178
75°	92	94	92	90	89	98
85°	17	24	27	27	28	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.2	541.2	541.2	541.2	541.2
2.5°	545.9	542.2	537.2	541.3	536.9
5°	543.7	540.0	534.9	538.8	534.5
7.5°	539.8	536.0	530.9	534.5	530.4
10°	534.0	530.6	525.3	528.2	523.1
12.5°	527.7	523.2	517.6	520.2	515.1
15°	519.1	515.1	508.9	510.8	505.3
17.5°	509.8	505.0	499.0	500.0	495.4
20°	499.0	494.2	487.9	488.3	483.1
22.5°	487.1	482.6	475.8	474.6	469.8
25°	474.3	469.3	462.3	460.6	455.2
27.5°	460.4	455.8	448.3	445.6	439.8
30°	446.1	440.6	433.5	429.4	424.1
32.5°	430.4	425.5	417.4	412.3	408.2
35°	414.7	409.1	400.7	395.6	390.6
37.5°	397.0	391.7	383.8	378.7	373.7
40°	380.4	374.6	367.1	360.8	354.8
42.5°	361.3	357.2	349.0	342.7	336.9
45°	342.9	338.6	330.7	324.1	319.1
47.5°	324.3	320.0	312.5	305.3	300.5
50°	304.8	300.2	292.5	286.2	282.4
52.5°	284.5	281.2	274.4	267.3	263.0
55°	263.8	261.1	254.5	247.3	244.0
57.5°	243.0	240.8	234.7	227.8	224.6
60°	221.5	220.5	214.7	208.2	204.3
62.5°	201.2	199.7	193.7	188.9	185.3
65°	180.0	178.9	173.4	167.9	165.7
67.5°	158.7	157.3	152.2	148.5	145.1
70°	136.2	136.2	132.1	128.5	126.3
72.5°	114.9	115.0	112.3	108.5	107.5
75°	92.2	93.5	92.3	89.8	89.1
77.5°	72.0	73.2	73.4	72.5	71.3
80°	50.9	54.3	55.6	55.5	55.1
82.5°	32.6	38.1	40.6	40.4	40.8
85°	17.2	23.7	26.6	26.6	27.5
87.5°	6.0	12.1	13.0	11.9	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)