

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: P412250

Luminaire Tested: **MRI-4ASR-8-250-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-8-250-L840-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

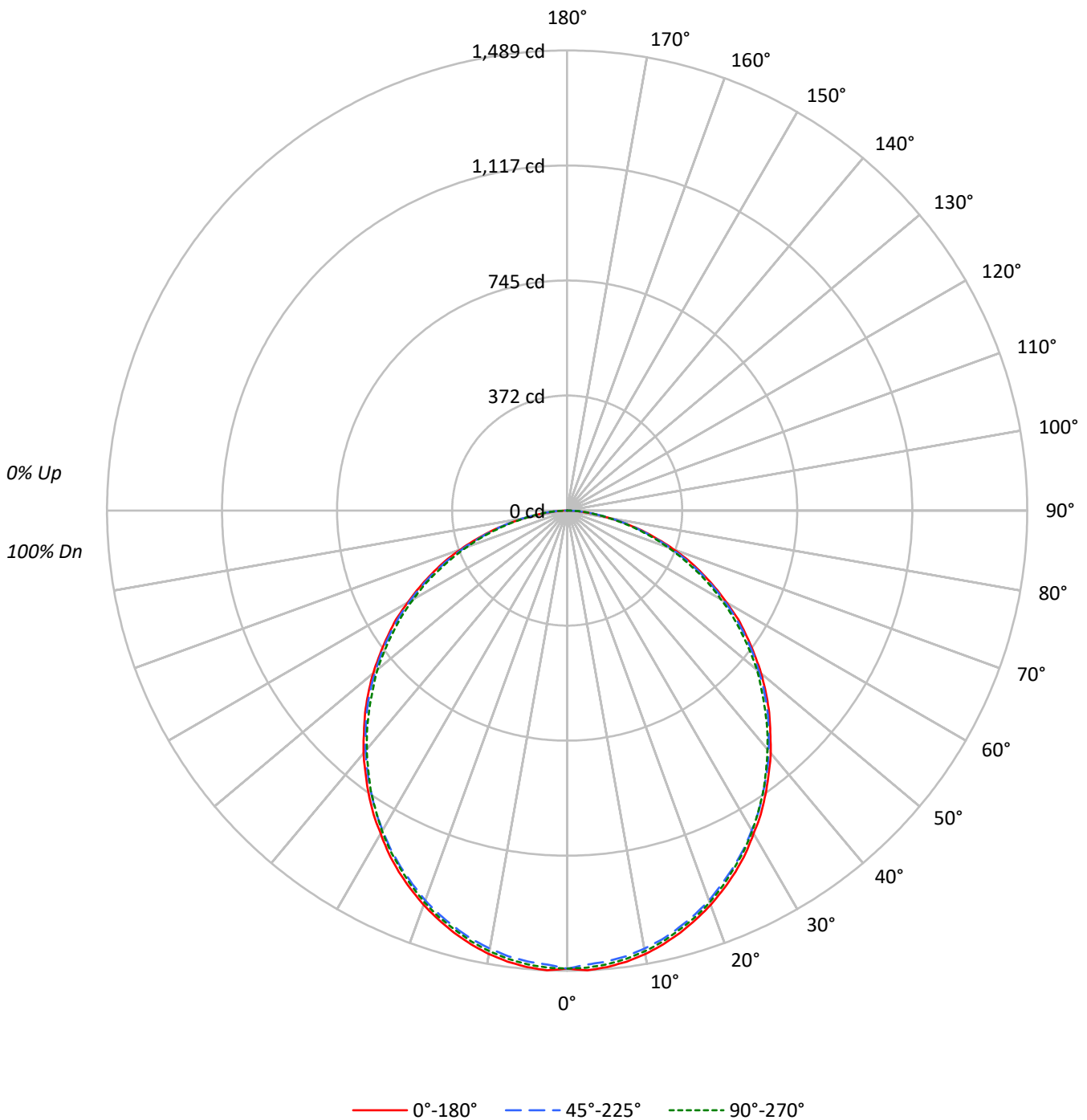
Lumens per Lamp: N/A
Luminaire Lumens: 3951.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	31
9	57	44	35	30	56	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°	5982	5982	5982
5°	6007	5934	5973
10°	5972	5898	5935
15°	5909	5838	5868
20°	5833	5767	5795
25°	5743	5670	5690
30°	5626	5565	5581
35°	5516	5457	5457
40°	5400	5348	5314
45°	5277	5234	5163
50°	5145	5085	5035
55°	4992	4935	4840
60°	4817	4753	4640
65°	4615	4529	4391
70°	4321	4203	4091
75°	3932	3838	3690
80°	3222	3280	3140
85°	2316	2617	2802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.5
10°-20°	396.5	10.0
20°-30°	589.7	14.9
30°-40°	695.3	17.6
40°-50°	706.4	17.9
50°-60°	626.9	15.9
60°-70°	469.0	11.9
70°-80°	259.8	6.6
80°-90°	67.5	1.7
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°	1126.1	28.5
0°-40°	1821.4	46.1
0°-60°	3154.7	79.8
0°-90°	3951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1483	1479	1465	1476	1474	141
15°	1414	1412	1397	1408	1404	399
25°	1290	1284	1273	1280	1278	594
35°	1119	1117	1107	1109	1107	700
45°	924	924	917	909	904	713
55°	709	712	701	692	688	635
65°	483	486	474	466	460	478
75°	252	250	246	239	237	265
85°	50	57	56	58	60	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.1	1482.1	1482.1	1482.1	1482.1
2.5°	1489.1	1484.6	1470.1	1482.1	1480.1
5°	1482.6	1478.6	1464.6	1475.6	1474.1
7.5°	1472.1	1467.6	1454.6	1465.6	1463.1
10°	1457.1	1452.6	1439.1	1450.6	1448.1
12.5°	1437.6	1433.6	1421.1	1430.6	1428.6
15°	1414.1	1411.6	1397.1	1407.6	1404.1
17.5°	1387.0	1384.5	1371.5	1381.5	1379.5
20°	1358.0	1353.5	1342.5	1349.5	1349.0
22.5°	1324.5	1320.5	1308.0	1316.5	1315.0
25°	1289.5	1284.5	1273.0	1279.5	1277.5
27.5°	1250.5	1245.5	1236.0	1241.0	1240.0
30°	1207.0	1205.5	1194.0	1198.5	1197.5
32.5°	1166.0	1162.0	1154.0	1153.5	1152.0
35°	1119.4	1117.4	1107.4	1108.9	1107.4
37.5°	1071.9	1070.9	1062.4	1060.4	1057.4
40°	1024.9	1021.9	1014.9	1010.9	1008.4
42.5°	972.9	974.4	964.9	960.4	958.4
45°	924.4	924.4	916.9	909.4	904.4
47.5°	872.3	872.8	864.8	855.3	852.3
50°	819.3	820.3	809.8	801.8	801.8
52.5°	763.8	766.8	756.8	748.3	744.8
55°	709.3	712.3	701.3	692.3	687.8
57.5°	656.8	656.3	647.3	635.3	634.3
60°	596.7	600.2	588.7	579.7	574.7
62.5°	539.7	544.2	531.7	523.2	520.2
65°	483.2	486.2	474.2	466.2	459.7
67.5°	427.7	426.7	415.7	406.7	403.2
70°	366.1	368.1	356.1	349.6	346.6
72.5°	308.6	310.6	300.1	295.6	290.6
75°	252.1	249.6	246.1	239.1	236.6
77.5°	192.1	194.6	193.6	186.1	185.1
80°	138.6	144.1	141.1	135.6	135.1
82.5°	92.0	97.5	96.0	94.5	93.0
85°	50.0	57.0	56.5	58.5	60.5
87.5°	19.0	24.5	29.0	28.5	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)