

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: P412214

Luminaire Tested: **MRI-2ASR-8-250-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412214
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-8-250-L840-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

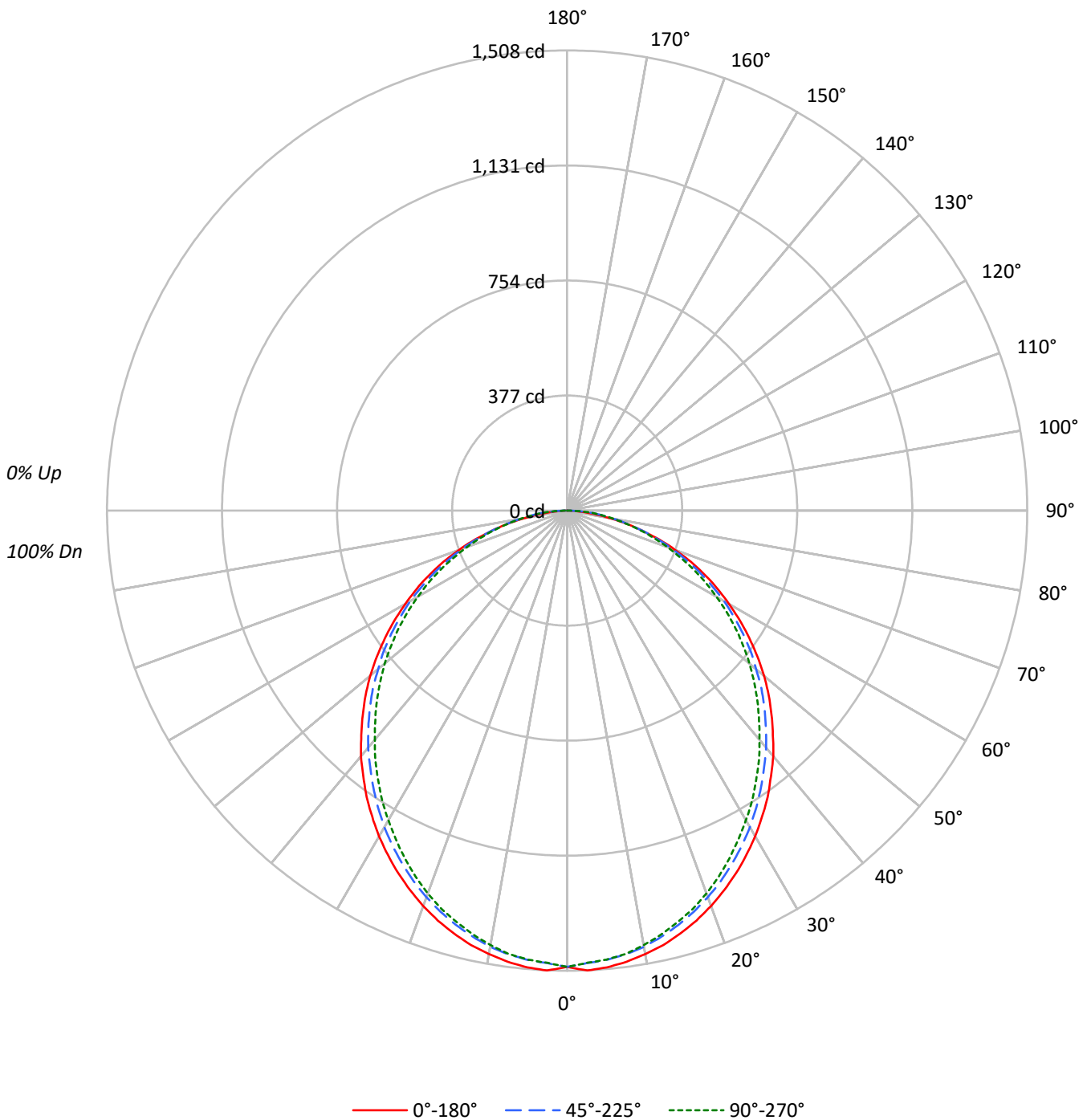
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	12071	12071	12071
5°	12175	11977	11969
10°	12095	11899	11849
15°	11989	11753	11670
20°	11846	11582	11469
25°	11673	11379	11203
30°	11491	11166	10923
35°	11293	10912	10638
40°	11077	10689	10332
45°	10816	10434	10067
50°	10577	10152	9801
55°	10260	9896	9491
60°	9883	9578	9114
65°	9503	9152	8747
70°	8882	8615	8238
75°	7941	7957	7679
80°	6532	7146	7080
85°	4409	6817	7030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.5
10°-20°	398.6	10.0
20°-30°	590.9	14.9
30°-40°	694.9	17.5
40°-50°	705.9	17.7
50°-60°	627.9	15.8
60°-70°	473.5	11.9
70°-80°	269.1	6.8
80°-90°	77.1	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°	1130.6	28.4
0°-40°	1825.5	45.9
0°-60°	3159.3	79.4
0°-90°	3979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1502	1492	1478	1489	1477	143
15°	1434	1423	1406	1411	1396	405
25°	1310	1297	1278	1273	1258	604
35°	1146	1130	1107	1093	1079	716
45°	947	936	914	896	882	731
55°	729	722	703	683	674	652
65°	498	494	479	464	458	491
75°	255	258	255	248	246	271
85°	48	66	74	74	76	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1508.5	1498.2	1484.5	1495.8	1483.6
5°	1502.4	1492.0	1477.9	1488.7	1477.0
7.5°	1491.6	1481.2	1467.0	1477.0	1465.6
10°	1475.5	1466.1	1451.5	1459.5	1445.4
12.5°	1458.1	1445.8	1430.3	1437.3	1423.2
15°	1434.5	1423.2	1406.2	1411.4	1396.3
17.5°	1408.6	1395.4	1378.9	1381.7	1369.0
20°	1378.9	1365.7	1348.2	1349.2	1335.0
22.5°	1345.9	1333.6	1314.7	1311.4	1298.2
25°	1310.5	1296.8	1277.5	1272.8	1257.7
27.5°	1272.3	1259.6	1238.8	1231.3	1215.2
30°	1232.7	1217.6	1197.8	1186.5	1171.8
32.5°	1189.3	1175.6	1153.5	1139.3	1128.0
35°	1145.9	1130.3	1107.2	1093.1	1079.4
37.5°	1096.9	1082.2	1060.6	1046.4	1032.7
40°	1051.1	1035.1	1014.3	996.9	980.4
42.5°	998.3	987.0	964.4	946.9	930.9
45°	947.4	935.6	913.9	895.5	881.8
47.5°	896.0	884.2	863.4	843.6	830.4
50°	842.2	829.5	808.3	790.8	780.4
52.5°	786.1	777.1	758.3	738.5	726.7
55°	729.0	721.5	703.1	683.3	674.3
57.5°	671.5	665.4	648.4	629.5	620.6
60°	612.1	609.3	593.2	575.3	564.5
62.5°	556.0	551.7	535.2	522.0	512.1
65°	497.5	494.2	479.1	464.0	457.9
67.5°	438.6	434.8	420.6	410.3	400.8
70°	376.3	376.3	365.0	355.1	349.0
72.5°	317.4	317.8	310.3	299.9	297.1
75°	254.6	258.4	255.1	248.0	246.2
77.5°	199.0	202.3	202.8	200.4	197.1
80°	140.5	150.0	153.7	153.3	152.3
82.5°	90.1	105.2	112.2	111.8	112.7
85°	47.6	65.5	73.6	73.6	75.9
87.5°	16.5	33.5	35.8	33.0	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)