

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: P412058

Luminaire Tested: **MRI-2ASR-2-1000-L840-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412058
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-2-1000-L840-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

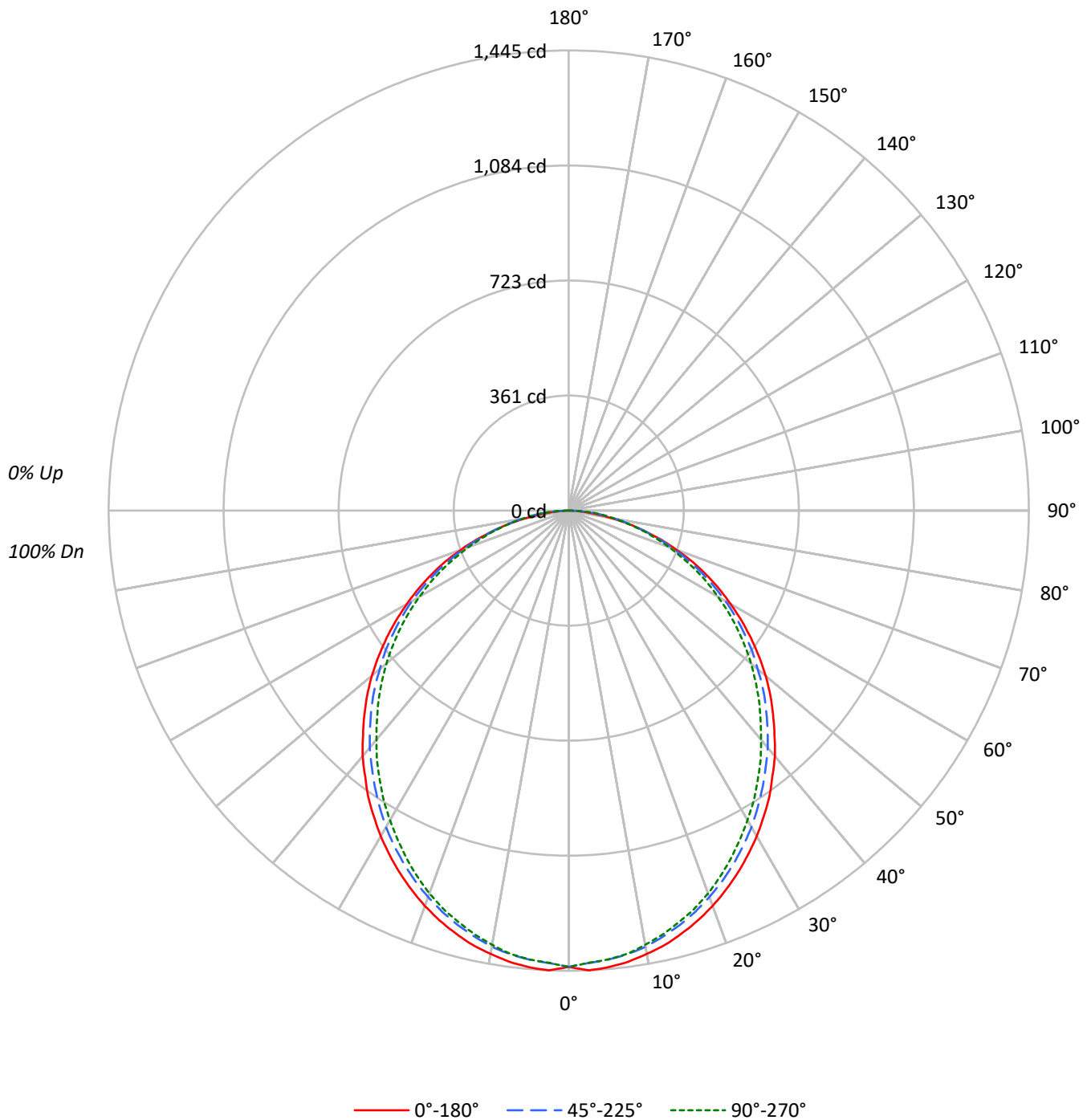
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412058

CATALOG NUMBER: MRI-2ASR-2-1000-L840-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412058

CATALOG NUMBER: MRI-2ASR-2-1000-L840-HEO

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	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°	46261	46261	46261
5°	46658	45896	45867
10°	46352	45598	45404
15°	45944	45038	44720
20°	45395	44385	43952
25°	44733	43607	42930
30°	44032	42787	41862
35°	43276	41818	40765
40°	42449	40965	39591
45°	41448	39982	38580
50°	40536	38898	37562
55°	39319	37923	36369
60°	37872	36703	34927
65°	36416	35072	33520
70°	34036	33017	31563
75°	30443	30493	29420
80°	25030	27392	27132
85°	16895	26121	26936



TEST NUMBER: P412058

CATALOG NUMBER: MRI-2ASR-2-1000-L840-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.5
10°-20°	381.9	10.0
20°-30°	566.1	14.9
30°-40°	665.8	17.5
40°-50°	676.2	17.7
50°-60°	601.6	15.8
60°-70°	453.7	11.9
70°-80°	257.8	6.8
80°-90°	73.8	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°	1083.1	28.4
0°-40°	1748.9	45.9
0°-60°	3026.7	79.4
0°-90°	3812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1439	1429	1416	1426	1415	137
15°	1374	1364	1347	1352	1338	388
25°	1256	1242	1224	1219	1205	578
35°	1098	1083	1061	1047	1034	686
45°	908	896	876	858	845	701
55°	698	691	674	655	646	624
65°	477	474	459	444	439	471
75°	244	248	244	238	236	260
85°	46	63	70	70	73	58
90°	0	0	0	0	0	



TEST NUMBER: P412058

CATALOG NUMBER: MRI-2ASR-2-1000-L840-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1445.2	1435.3	1422.2	1433.0	1421.3
5°	1439.4	1429.4	1415.9	1426.3	1415.0
7.5°	1429.0	1419.0	1405.5	1415.0	1404.1
10°	1413.6	1404.6	1390.6	1398.2	1384.7
12.5°	1396.9	1385.1	1370.2	1377.0	1363.5
15°	1374.3	1363.5	1347.2	1352.2	1337.7
17.5°	1349.5	1336.8	1321.0	1323.7	1311.5
20°	1321.0	1308.3	1291.6	1292.5	1279.0
22.5°	1289.4	1277.6	1259.6	1256.4	1243.7
25°	1255.5	1242.4	1223.9	1219.3	1204.9
27.5°	1218.9	1206.7	1186.8	1179.6	1164.2
30°	1180.9	1166.5	1147.5	1136.7	1122.7
32.5°	1139.4	1126.3	1105.0	1091.5	1080.6
35°	1097.8	1082.9	1060.8	1047.2	1034.1
37.5°	1050.8	1036.8	1016.0	1002.5	989.4
40°	1007.0	991.6	971.8	955.1	939.2
42.5°	956.4	945.6	923.9	907.2	891.8
45°	907.6	896.3	875.5	857.9	844.8
47.5°	858.4	847.1	827.2	808.2	795.6
50°	806.9	794.7	774.3	757.6	747.7
52.5°	753.1	744.5	726.5	707.5	696.2
55°	698.4	691.2	673.6	654.6	646.0
57.5°	643.3	637.5	621.2	603.1	594.5
60°	586.4	583.7	568.3	551.2	540.8
62.5°	532.6	528.6	512.8	500.1	490.6
65°	476.6	473.5	459.0	444.5	438.7
67.5°	420.2	416.5	403.0	393.0	384.0
70°	360.5	360.5	349.7	340.2	334.3
72.5°	304.0	304.5	297.3	287.3	284.6
75°	244.0	247.6	244.4	237.6	235.8
77.5°	190.6	193.8	194.3	192.0	188.8
80°	134.6	143.7	147.3	146.8	145.9
82.5°	86.3	100.7	107.5	107.1	108.0
85°	45.6	62.8	70.5	70.5	72.7
87.5°	15.8	32.1	34.3	31.6	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)