

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: P412066

Luminaire Tested: **MRI-2ASR-2-1000-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412066
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-L950-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

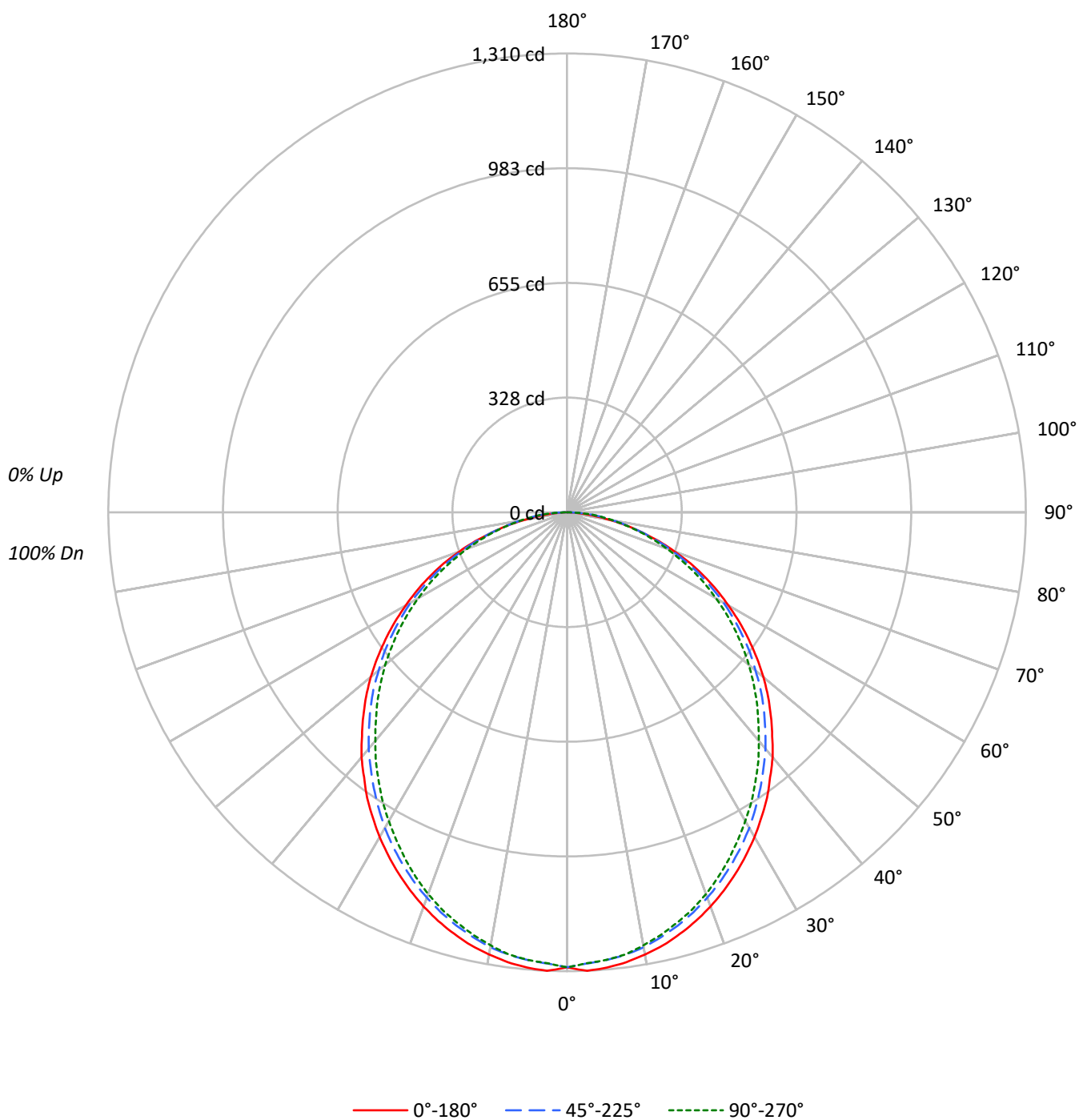
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	41940	41940	41940
5°	42298	41608	41582
10°	42023	41338	41164
15°	41655	40832	40545
20°	41154	40240	39845
25°	40554	39535	38922
30°	39923	38790	37951
35°	39236	37911	36957
40°	38486	37137	35894
45°	37580	36251	34977
50°	36748	35266	34056
55°	35648	34382	32974
60°	34333	33280	31665
65°	33016	31794	30388
70°	30855	29929	28617
75°	27598	27648	26675
80°	22706	24826	24603
85°	15339	23675	24416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.5
10°-20°	346.2	10.0
20°-30°	513.2	14.9
30°-40°	603.6	17.5
40°-50°	613.1	17.7
50°-60°	545.4	15.8
60°-70°	411.3	11.9
70°-80°	233.7	6.8
80°-90°	66.9	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°	982.0	28.4
0°-40°	1585.6	45.9
0°-60°	2744.1	79.4
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1305	1296	1284	1293	1283	124
15°	1246	1236	1221	1226	1213	351
25°	1138	1126	1110	1106	1092	524
35°	995	982	962	949	938	622
45°	823	813	794	778	766	635
55°	633	627	611	594	586	566
65°	432	429	416	403	398	427
75°	221	224	222	215	214	236
85°	41	57	64	64	66	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.8	1298.8	1298.8	1298.8	1298.8
2.5°	1310.3	1301.3	1289.4	1299.2	1288.6
5°	1304.9	1295.9	1283.6	1293.1	1282.8
7.5°	1295.5	1286.5	1274.2	1282.8	1273.0
10°	1281.6	1273.4	1260.7	1267.7	1255.4
12.5°	1266.4	1255.8	1242.3	1248.4	1236.1
15°	1246.0	1236.1	1221.4	1225.9	1212.8
17.5°	1223.4	1212.0	1197.6	1200.1	1189.0
20°	1197.6	1186.2	1171.0	1171.8	1159.5
22.5°	1169.0	1158.3	1141.9	1139.1	1127.6
25°	1138.2	1126.4	1109.6	1105.5	1092.4
27.5°	1105.1	1094.0	1076.0	1069.4	1055.5
30°	1070.7	1057.5	1040.3	1030.5	1017.8
32.5°	1033.0	1021.1	1001.8	989.6	979.7
35°	995.3	981.8	961.7	949.4	937.5
37.5°	952.7	940.0	921.2	908.9	897.0
40°	913.0	899.0	881.0	865.9	851.5
42.5°	867.1	857.3	837.6	822.4	808.5
45°	822.9	812.6	793.8	777.8	765.9
47.5°	778.2	768.0	750.0	732.7	721.3
50°	731.5	720.5	702.0	686.9	677.9
52.5°	682.8	675.0	658.6	641.4	631.2
55°	633.2	626.7	610.7	593.5	585.7
57.5°	583.2	577.9	563.2	546.8	539.0
60°	531.6	529.2	515.3	499.7	490.3
62.5°	482.9	479.2	464.9	453.4	444.8
65°	432.1	429.2	416.1	403.0	397.7
67.5°	380.9	377.6	365.4	356.3	348.1
70°	326.8	326.8	317.0	308.4	303.1
72.5°	275.7	276.1	269.5	260.5	258.0
75°	221.2	224.5	221.6	215.4	213.8
77.5°	172.8	175.7	176.1	174.1	171.2
80°	122.1	130.2	133.5	133.1	132.3
82.5°	78.2	91.3	97.5	97.1	97.9
85°	41.4	56.9	63.9	63.9	65.9
87.5°	14.3	29.1	31.1	28.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)