

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: P412210

Luminaire Tested: **MRI-2ASR-8-1000-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412210
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-8-1000-L950-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8398.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

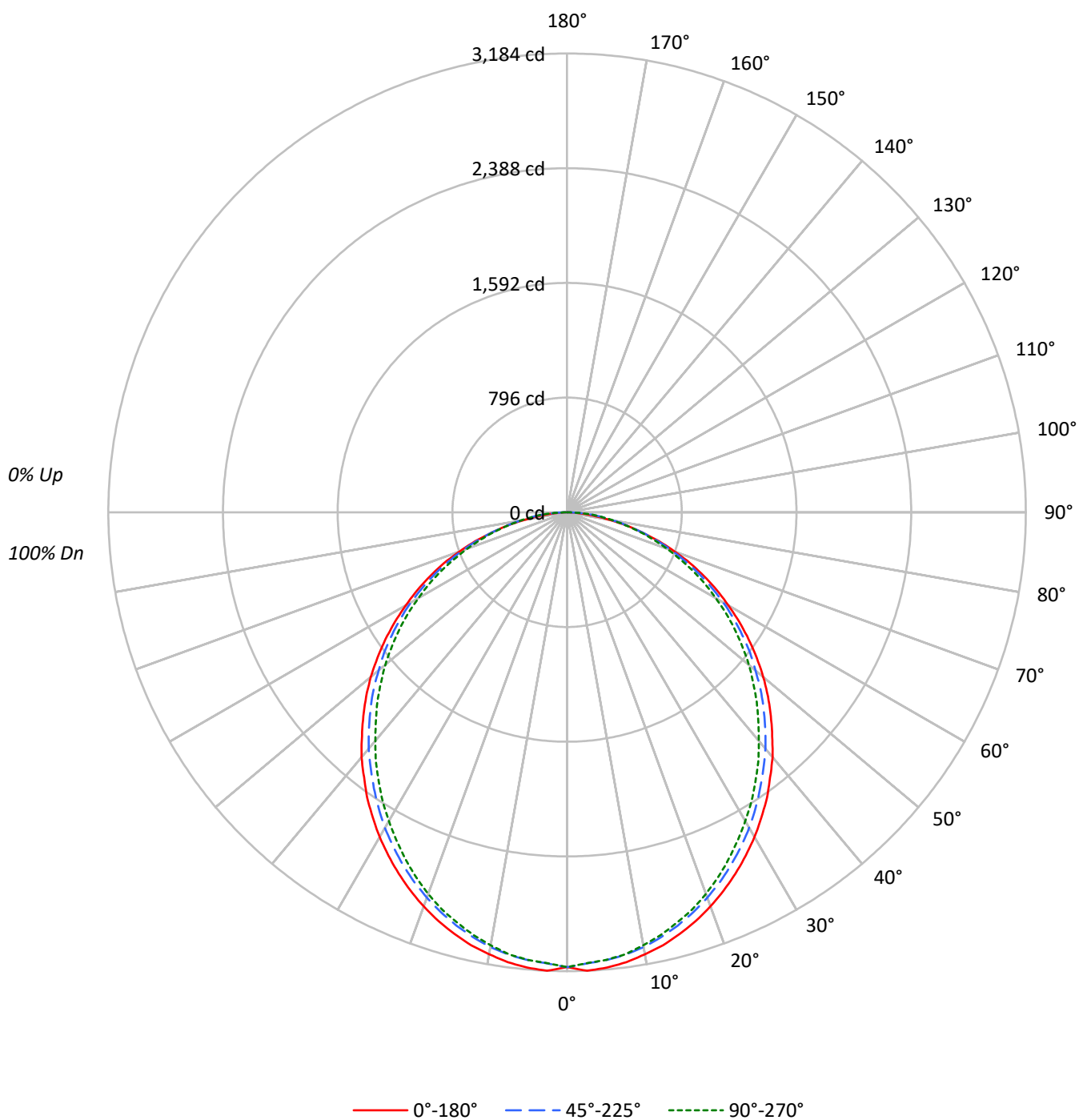
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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°	25478	25478	25478
5°	25697	25277	25261
10°	25529	25113	25006
15°	25305	24805	24630
20°	25002	24446	24206
25°	24637	24016	23644
30°	24253	23566	23056
35°	23835	23031	22452
40°	23380	22562	21806
45°	22828	22022	21249
50°	22325	21425	20688
55°	21657	20887	20033
60°	20859	20216	19236
65°	20057	19316	18460
70°	18746	18182	17384
75°	16765	16793	16204
80°	13789	15086	14947
85°	9309	14385	14839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	3.5
10°-20°	841.3	10.0
20°-30°	1247.2	14.9
30°-40°	1466.7	17.5
40°-50°	1489.8	17.7
50°-60°	1325.3	15.8
60°-70°	999.4	11.9
70°-80°	567.9	6.8
80°-90°	162.7	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°	2386.2	28.4
0°-40°	3852.9	45.9
0°-60°	6668.0	79.4
0°-90°	8398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3156	3156	3156	3156	3156	
5°	3171	3149	3119	3142	3117	301
15°	3028	3004	2968	2979	2947	854
25°	2766	2737	2696	2686	2654	1274
35°	2418	2386	2337	2307	2278	1511
45°	2000	1975	1929	1890	1861	1543
55°	1539	1523	1484	1442	1423	1375
65°	1050	1043	1011	979	966	1037
75°	538	545	538	524	520	573
85°	100	138	155	155	160	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3156.0	3156.0	3156.0	3156.0	3156.0
2.5°	3183.9	3162.0	3133.2	3157.0	3131.2
5°	3171.0	3149.1	3119.2	3142.1	3117.2
7.5°	3148.1	3126.2	3096.3	3117.2	3093.3
10°	3114.2	3094.3	3063.5	3080.4	3050.5
12.5°	3077.4	3051.5	3018.7	3033.6	3003.8
15°	3027.7	3003.8	2967.9	2978.9	2947.0
17.5°	2972.9	2945.0	2910.2	2916.2	2889.3
20°	2910.2	2882.3	2845.5	2847.5	2817.6
22.5°	2840.5	2814.7	2774.8	2767.9	2740.0
25°	2765.9	2737.0	2696.2	2686.3	2654.4
27.5°	2685.3	2658.4	2614.6	2598.7	2564.8
30°	2601.7	2569.8	2528.0	2504.1	2473.3
32.5°	2510.1	2481.2	2434.5	2404.6	2380.7
35°	2418.5	2385.7	2336.9	2307.1	2278.2
37.5°	2315.0	2284.2	2238.4	2208.5	2179.7
40°	2218.5	2184.6	2140.9	2104.0	2069.2
42.5°	2107.0	2083.1	2035.4	1998.5	1964.7
45°	1999.5	1974.6	1928.9	1890.0	1861.2
47.5°	1891.0	1866.2	1822.4	1780.6	1752.7
50°	1777.6	1750.7	1705.9	1669.1	1647.2
52.5°	1659.1	1640.2	1600.4	1558.6	1533.7
55°	1538.7	1522.8	1484.0	1442.2	1423.3
57.5°	1417.3	1404.3	1368.5	1328.7	1309.8
60°	1291.9	1285.9	1252.1	1214.2	1191.4
62.5°	1173.4	1164.5	1129.6	1101.8	1080.9
65°	1050.0	1043.1	1011.2	979.4	966.4
67.5°	925.6	917.7	887.8	865.9	846.0
70°	794.2	794.2	770.3	749.4	736.5
72.5°	669.8	670.8	654.9	633.0	627.0
75°	537.5	545.4	538.4	523.5	519.5
77.5°	420.0	427.0	428.0	423.0	416.0
80°	296.6	316.5	324.5	323.5	321.5
82.5°	190.1	221.9	236.9	235.9	237.9
85°	100.5	138.3	155.3	155.3	160.2
87.5°	34.8	70.7	75.6	69.7	66.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)