

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: P412034

Luminaire Tested: **MRI-22ATR-60-L850-OPL**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2008-915-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-22ATR-60-L850-OPL
Description: 2X2 TROFFER, 6000LM, OPAL LENS
Light Source: (588) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6494.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

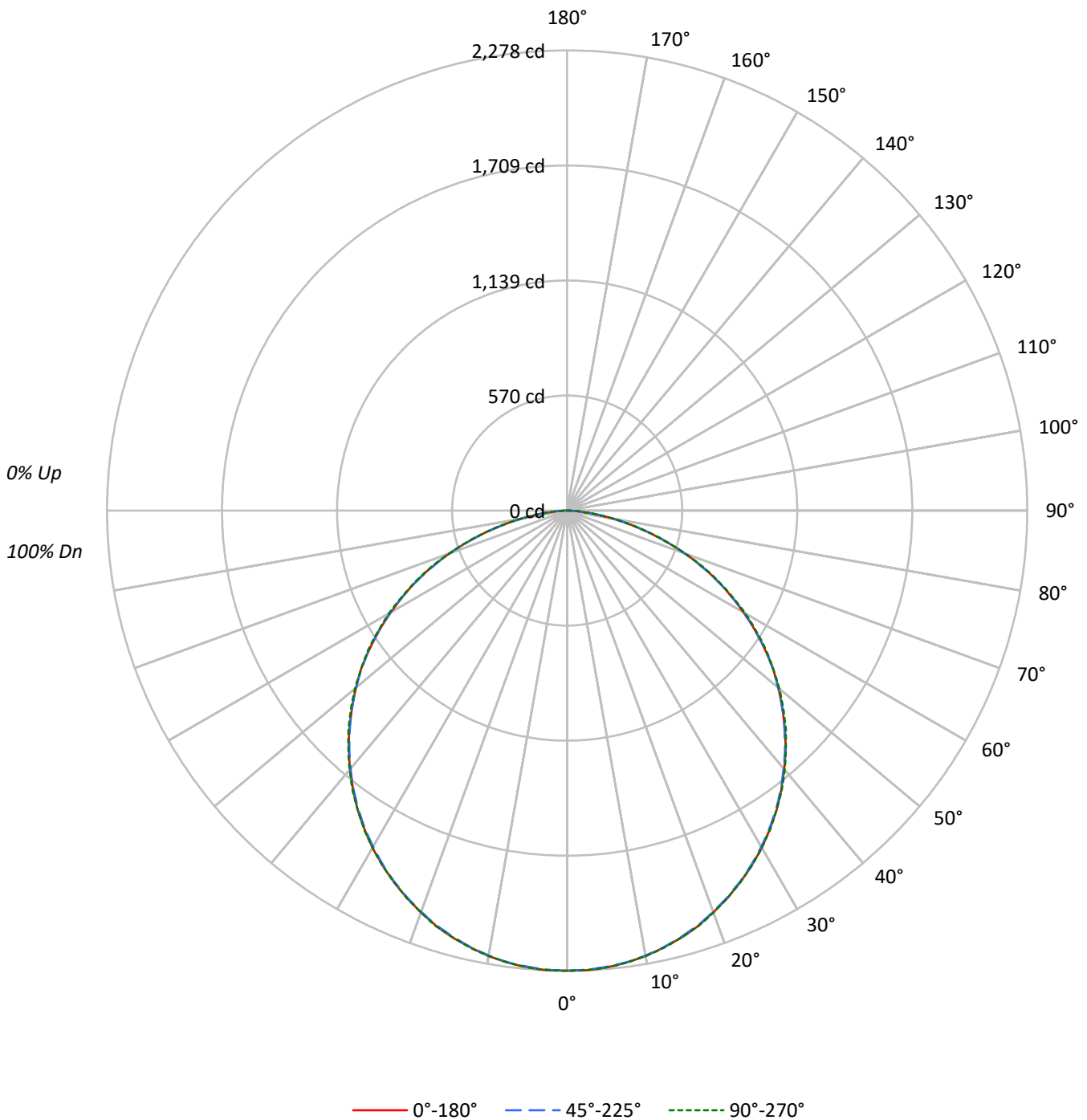
Input Watts (W): 94.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6129	6129	6129
5°	6129	6123	6132
10°	6118	6112	6118
15°	6097	6085	6094
20°	6060	6051	6064
25°	6025	6015	6025
30°	5987	5971	5987
35°	5941	5924	5938
40°	5870	5858	5885
45°	5798	5785	5826
50°	5711	5711	5738
55°	5598	5608	5638
60°	5426	5443	5478
65°	5227	5207	5254
70°	4876	4884	4884
75°	4318	4329	4386
80°	3552	3552	3618
85°	2325	2458	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	3.3
10°-20°	617.0	9.5
20°-30°	934.6	14.4
30°-40°	1129.2	17.4
40°-50°	1175.9	18.1
50°-60°	1067.4	16.4
60°-70°	809.4	12.5
70°-80°	444.0	6.8
80°-90°	100.9	1.6
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°	1767.1	27.2
0°-40°	2896.3	44.6
0°-60°	5139.7	79.1
0°-90°	6494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2269	2268	2267	2268	2270	216
15°	2188	2186	2184	2185	2187	617
25°	2029	2026	2026	2030	2029	935
35°	1809	1804	1803	1805	1808	1130
45°	1524	1522	1520	1528	1531	1175
55°	1193	1192	1195	1201	1202	1066
65°	821	816	818	820	825	809
75°	415	417	416	421	422	441
85°	75	78	80	78	74	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2277.7	2277.7	2277.7	2277.7	2277.7
2.5°	2277.7	2275.5	2274.5	2275.5	2276.6
5°	2269.1	2268.0	2266.9	2268.0	2270.2
7.5°	2257.2	2256.2	2255.1	2255.1	2256.2
10°	2238.9	2237.9	2236.8	2237.9	2238.9
12.5°	2214.2	2214.2	2213.1	2213.1	2216.4
15°	2188.4	2186.2	2184.1	2185.2	2187.3
17.5°	2156.1	2152.9	2152.9	2154.0	2157.2
20°	2116.3	2116.3	2113.1	2115.2	2117.4
22.5°	2075.4	2073.3	2072.2	2074.3	2075.4
25°	2029.1	2025.9	2025.9	2030.2	2029.1
27.5°	1979.7	1976.4	1976.4	1977.5	1980.7
30°	1926.9	1924.8	1921.6	1924.8	1926.9
32.5°	1867.8	1864.5	1864.5	1867.8	1871.0
35°	1808.6	1804.3	1803.2	1805.4	1807.5
37.5°	1740.8	1737.6	1737.6	1743.0	1745.1
40°	1670.9	1670.9	1667.6	1673.0	1675.2
42.5°	1600.9	1598.8	1596.6	1603.1	1603.1
45°	1523.5	1522.4	1520.2	1527.8	1531.0
47.5°	1443.9	1447.1	1444.9	1450.3	1451.4
50°	1364.2	1363.2	1364.2	1367.5	1370.7
52.5°	1284.6	1279.2	1281.4	1282.5	1284.6
55°	1193.2	1192.1	1195.3	1200.7	1201.8
57.5°	1101.7	1101.7	1103.9	1110.3	1109.3
60°	1008.1	1009.2	1011.3	1015.7	1017.8
62.5°	913.4	914.5	915.6	922.0	919.9
65°	820.9	815.5	817.7	819.8	825.2
67.5°	719.8	716.5	716.5	721.9	726.2
70°	619.7	617.6	620.8	621.9	620.8
72.5°	515.4	517.5	518.6	520.7	519.7
75°	415.3	417.4	416.4	420.7	421.8
77.5°	319.5	321.7	323.8	323.8	321.7
80°	229.2	229.2	229.2	230.2	233.5
82.5°	143.1	146.3	150.6	145.2	147.4
85°	75.3	77.5	79.6	77.5	74.2
87.5°	31.2	32.3	31.2	32.3	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)