

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: P589276

Luminaire Tested: **FMR-24-2-LD4-3HI-35-UNV-80-97-EDD**

Issue Date: 12/8/2021



Test Information

Test Method: LM-79-08
Report Number: P589276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMR-24-2-LD4-3HI-35-UNV-80-97-EDD
Description: 2X2 FMR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

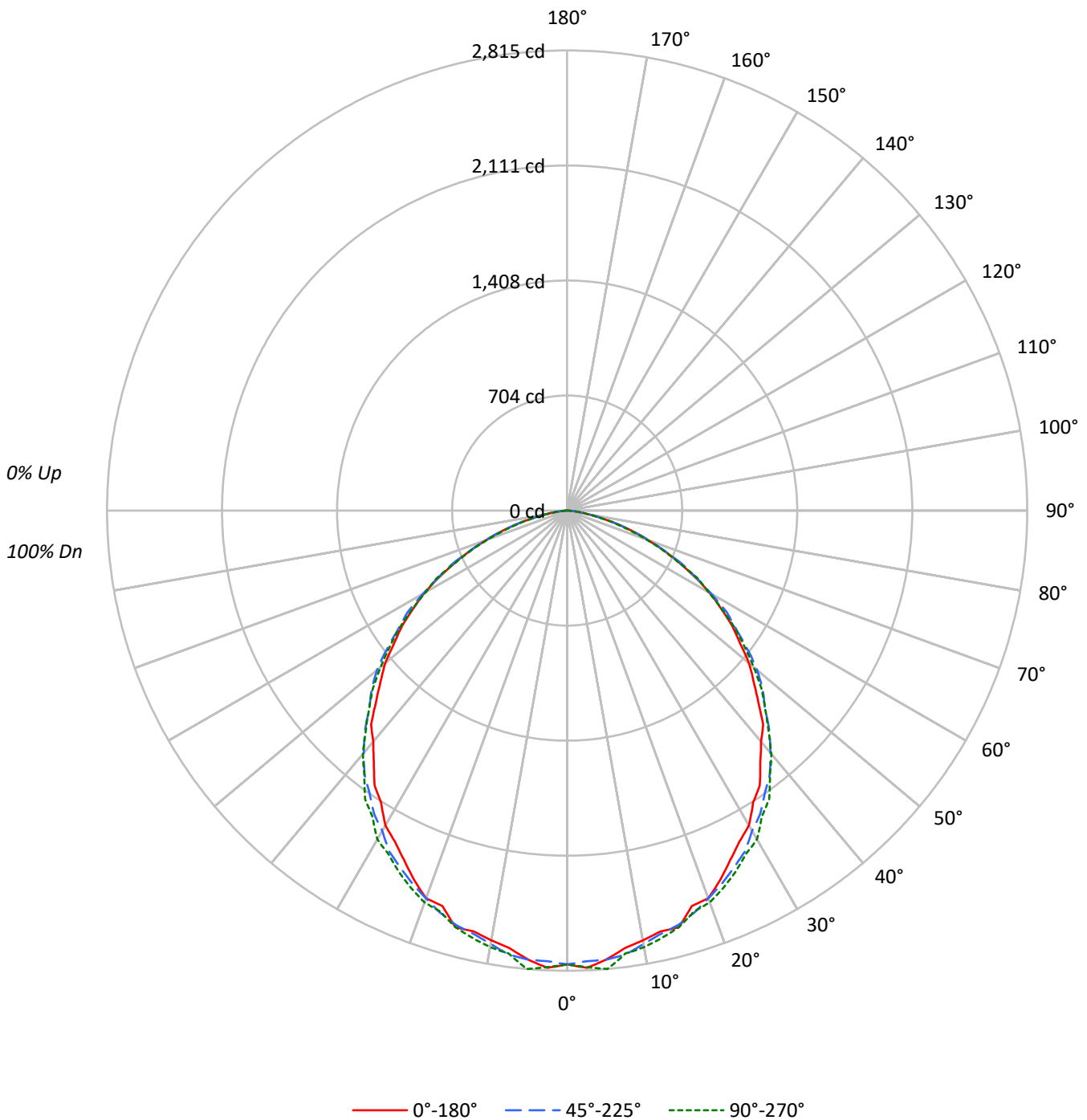
Lumens per Lamp: N/A
Luminaire Lumens: 6996.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55					53				
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					41				
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38					36				
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34					32				
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7470	7470	7470
5°	7445	7448	7605
10°	7294	7358	7410
15°	7352	7312	7353
20°	7228	7228	7305
25°	7005	7159	7237
30°	6909	7031	7218
35°	6747	6923	7078
40°	6484	6796	6826
45°	6288	6511	6521
50°	6081	6356	6234
55°	5795	5907	5865
60°	5419	5472	5374
65°	4831	4954	4797
70°	4146	4159	4044
75°	3283	3275	3149
80°	2199	2139	2055
85°	1195	1183	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	3.7
10°-20°	740.0	10.6
20°-30°	1108.7	15.8
30°-40°	1314.0	18.8
40°-50°	1316.5	18.8
50°-60°	1117.5	16.0
60°-70°	753.4	10.8
70°-80°	331.0	4.7
80°-90°	53.8	0.8
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°	2109.8	30.2
0°-40°	3423.9	48.9
0°-60°	5857.8	83.7
0°-90°	6996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2776	2776	2776	2776	2776	
5°	2756	2750	2757	2749	2815	260
15°	2639	2608	2625	2638	2639	735
25°	2359	2372	2411	2442	2438	1091
35°	2054	2060	2107	2156	2155	1275
45°	1652	1683	1711	1755	1714	1278
55°	1235	1227	1259	1250	1250	1099
65°	759	749	778	748	753	755
75°	316	309	315	293	303	338
85°	39	38	38	37	36	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2775.8	2775.8	2775.8	2775.8	2775.8
2.5°	2799.8	2778.7	2759.0	2781.9	2795.9
5°	2756.1	2749.7	2757.2	2749.0	2815.3
7.5°	2699.5	2724.2	2738.6	2729.6	2733.5
10°	2669.4	2660.8	2692.7	2714.9	2711.7
12.5°	2637.1	2650.0	2651.8	2675.8	2678.0
15°	2638.9	2608.5	2624.6	2638.2	2639.3
17.5°	2536.4	2569.4	2580.5	2611.7	2573.0
20°	2523.9	2499.9	2523.9	2555.8	2550.8
22.5°	2446.8	2419.9	2471.6	2499.9	2498.1
25°	2359.4	2372.3	2411.0	2442.5	2437.5
27.5°	2282.7	2297.7	2352.9	2396.3	2368.3
30°	2223.5	2216.0	2262.6	2301.3	2322.8
32.5°	2117.8	2145.0	2199.5	2237.9	2217.4
35°	2053.7	2059.7	2107.4	2156.2	2154.7
37.5°	1941.5	1969.8	2036.8	2050.4	2037.9
40°	1845.8	1874.1	1934.7	1949.4	1943.3
42.5°	1775.2	1780.2	1832.2	1849.0	1822.1
45°	1652.2	1683.1	1711.0	1755.1	1713.5
47.5°	1547.6	1561.9	1622.1	1634.0	1612.1
50°	1452.6	1457.6	1518.2	1503.5	1489.2
52.5°	1333.3	1354.4	1388.5	1385.6	1368.7
55°	1235.1	1226.8	1259.1	1250.5	1250.1
57.5°	1117.1	1131.5	1158.0	1144.4	1122.5
60°	1006.8	1007.1	1016.8	1001.4	998.5
62.5°	883.8	888.1	890.3	871.3	902.1
65°	758.7	748.7	778.1	748.3	753.4
67.5°	643.7	648.7	645.8	627.2	634.4
70°	526.9	533.3	528.6	507.5	514.0
72.5°	420.0	412.2	417.2	390.7	402.8
75°	315.8	309.3	315.0	292.8	302.9
77.5°	215.0	220.1	216.5	204.6	211.5
80°	141.9	138.0	138.0	131.2	132.6
82.5°	82.8	78.8	77.8	75.6	78.8
85°	38.7	37.6	38.3	37.3	35.8
87.5°	14.0	14.3	14.3	13.6	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)