

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: P588794

Luminaire Tested: **FMR-24-2-LD4-1LO-35-UNV-80-94-EDD**

Issue Date: 12/8/2021



Test Information

Test Method: LM-79-08
Report Number: P588794
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-LD4-1LO-35-UNV-80-94-EDD
Description: 2X2 FMR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

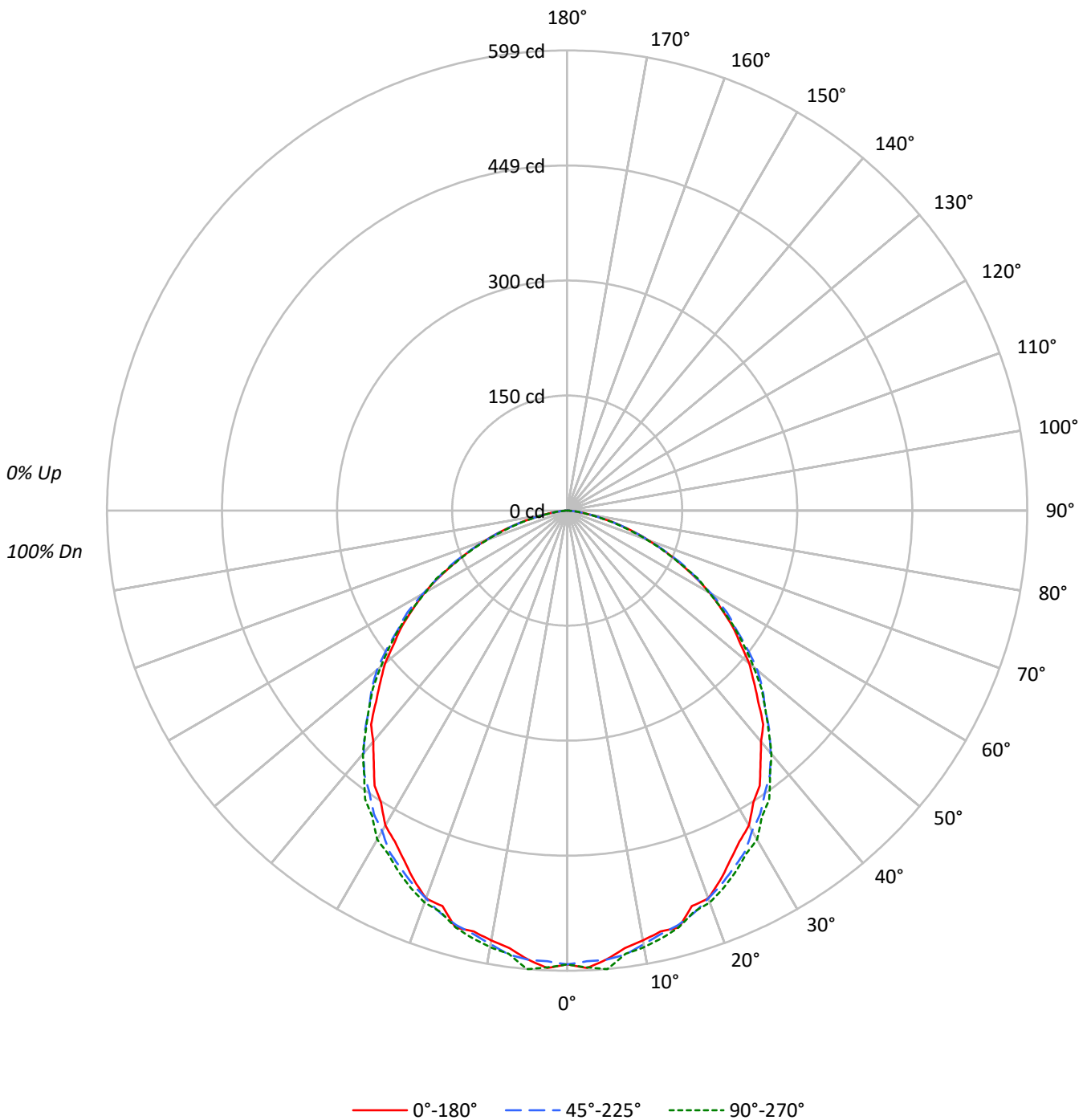
Lumens per Lamp: N/A
Luminaire Lumens: 1489.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	1590	1590	1590
5°	1585	1585	1619
10°	1552	1566	1577
15°	1565	1556	1565
20°	1538	1538	1555
25°	1491	1523	1540
30°	1470	1496	1536
35°	1436	1473	1507
40°	1380	1447	1453
45°	1338	1386	1388
50°	1294	1353	1327
55°	1233	1257	1248
60°	1153	1165	1144
65°	1028	1054	1021
70°	882	885	861
75°	699	698	671
80°	468	456	437
85°	253	253	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.7
10°-20°	157.5	10.6
20°-30°	236.0	15.8
30°-40°	279.7	18.8
40°-50°	280.2	18.8
50°-60°	237.8	16.0
60°-70°	160.4	10.8
70°-80°	70.5	4.7
80°-90°	11.5	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°	449.0	30.2
0°-40°	728.7	48.9
0°-60°	1246.7	83.7
0°-90°	1489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	587	585	587	585	599	55
15°	562	555	559	562	562	156
25°	502	505	513	520	519	232
35°	437	438	448	459	459	271
45°	352	358	364	374	365	272
55°	263	261	268	266	266	234
65°	162	159	166	159	160	161
75°	67	66	67	62	64	72
85°	8	8	8	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.8	590.8	590.8	590.8	590.8
2.5°	595.9	591.4	587.2	592.1	595.1
5°	586.6	585.2	586.8	585.1	599.2
7.5°	574.5	579.8	582.9	581.0	581.8
10°	568.1	566.3	573.1	577.8	577.1
12.5°	561.3	564.0	564.4	569.5	570.0
15°	561.7	555.2	558.6	561.5	561.7
17.5°	539.8	546.9	549.2	555.9	547.6
20°	537.2	532.1	537.2	544.0	542.9
22.5°	520.8	515.1	526.0	532.1	531.7
25°	502.2	504.9	513.1	519.9	518.8
27.5°	485.8	489.0	500.8	510.0	504.1
30°	473.2	471.6	481.6	489.8	494.4
32.5°	450.7	456.5	468.1	476.3	472.0
35°	437.1	438.4	448.5	458.9	458.6
37.5°	413.2	419.2	433.5	436.4	433.7
40°	392.8	398.9	411.8	414.9	413.6
42.5°	377.8	378.9	389.9	393.5	387.8
45°	351.7	358.2	364.2	373.5	364.7
47.5°	329.4	332.4	345.2	347.8	343.1
50°	309.2	310.2	323.1	320.0	316.9
52.5°	283.8	288.3	295.5	294.9	291.3
55°	262.9	261.1	268.0	266.1	266.1
57.5°	237.8	240.8	246.5	243.6	238.9
60°	214.3	214.4	216.4	213.1	212.5
62.5°	188.1	189.0	189.5	185.4	192.0
65°	161.5	159.4	165.6	159.3	160.3
67.5°	137.0	138.1	137.5	133.5	135.0
70°	112.1	113.5	112.5	108.0	109.4
72.5°	89.4	87.7	88.8	83.1	85.7
75°	67.2	65.8	67.1	62.3	64.5
77.5°	45.8	46.8	46.1	43.6	45.0
80°	30.2	29.4	29.4	27.9	28.2
82.5°	17.6	16.8	16.6	16.1	16.8
85°	8.2	8.0	8.2	7.9	7.6
87.5°	3.0	3.1	3.1	2.9	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)