

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: P588986

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

Issue Date: 12/8/2021



Test Information

Test Method: LM-79-08
Report Number: P588986
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-LD4-2HI-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

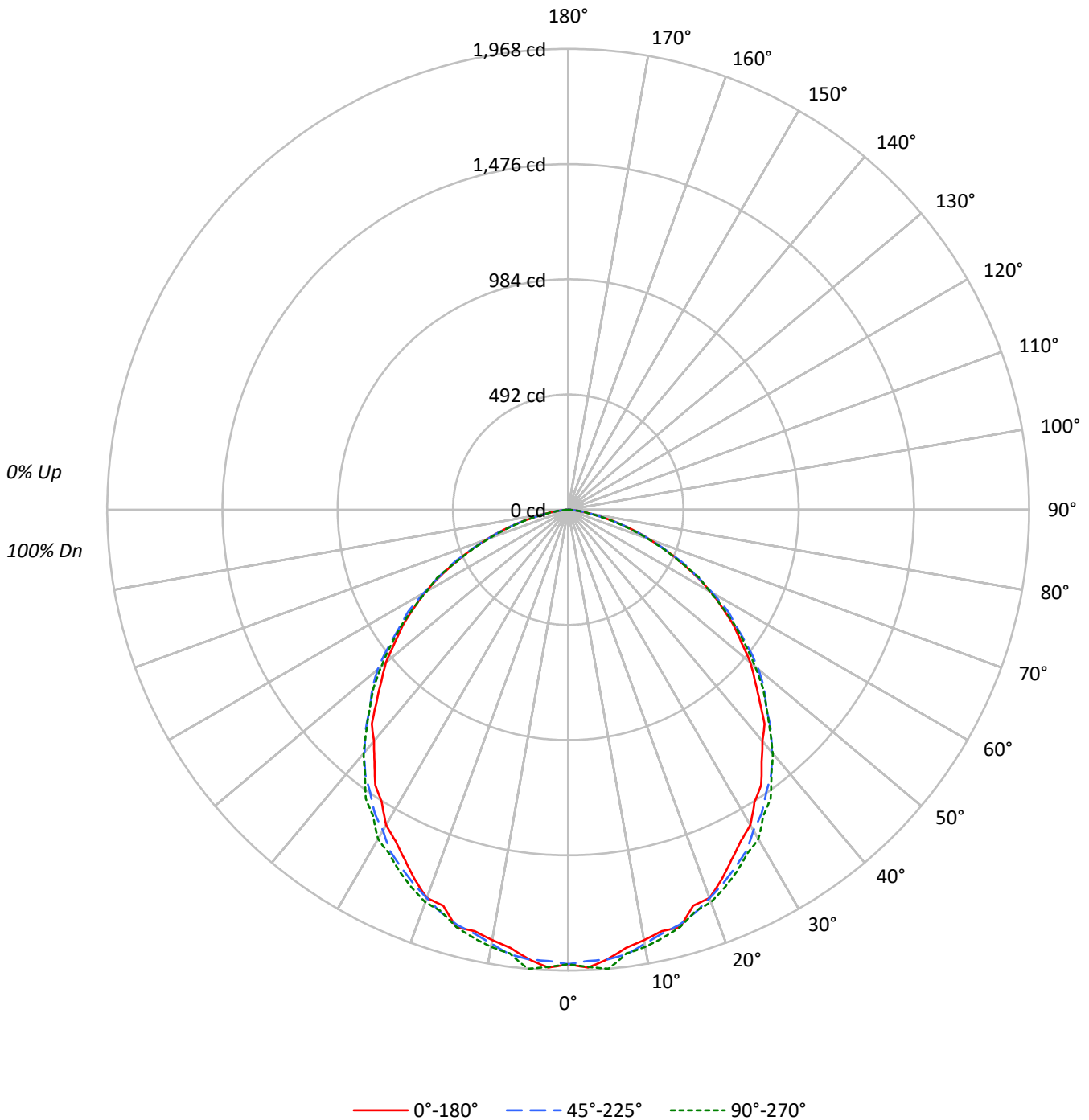
Lumens per Lamp: N/A
Luminaire Lumens: 4891.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	5222	5222	5222
5°	5205	5207	5317
10°	5099	5144	5180
15°	5140	5112	5141
20°	5053	5053	5107
25°	4898	5005	5060
30°	4830	4915	5046
35°	4716	4840	4949
40°	4533	4751	4773
45°	4396	4552	4559
50°	4251	4443	4358
55°	4051	4130	4100
60°	3788	3826	3757
65°	3377	3464	3354
70°	2898	2908	2827
75°	2295	2289	2201
80°	1537	1495	1437
85°	837	827	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.7
10°-20°	517.4	10.6
20°-30°	775.1	15.8
30°-40°	918.7	18.8
40°-50°	920.4	18.8
50°-60°	781.2	16.0
60°-70°	526.7	10.8
70°-80°	231.4	4.7
80°-90°	37.6	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°	1475.0	30.2
0°-40°	2393.7	48.9
0°-60°	4095.3	83.7
0°-90°	4891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1927	1922	1928	1922	1968	182
15°	1845	1824	1835	1844	1845	514
25°	1650	1658	1686	1708	1704	763
35°	1436	1440	1473	1507	1506	891
45°	1155	1177	1196	1227	1198	894
55°	863	858	880	874	874	768
65°	530	523	544	523	527	528
75°	221	216	220	205	212	237
85°	27	26	27	26	25	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1957.4	1942.6	1928.8	1944.9	1954.7
5°	1926.8	1922.3	1927.6	1921.8	1968.2
7.5°	1887.3	1904.5	1914.6	1908.3	1911.1
10°	1866.2	1860.2	1882.5	1898.0	1895.8
12.5°	1843.7	1852.7	1853.9	1870.7	1872.2
15°	1844.9	1823.6	1834.9	1844.4	1845.2
17.5°	1773.2	1796.3	1804.1	1825.9	1798.8
20°	1764.5	1747.7	1764.5	1786.8	1783.3
22.5°	1710.6	1691.8	1727.9	1747.7	1746.4
25°	1649.5	1658.5	1685.6	1707.6	1704.1
27.5°	1595.8	1606.4	1645.0	1675.3	1655.7
30°	1554.5	1549.2	1581.8	1608.9	1623.9
32.5°	1480.6	1499.6	1537.7	1564.5	1550.2
35°	1435.7	1440.0	1473.3	1507.4	1506.4
37.5°	1357.3	1377.1	1424.0	1433.5	1424.7
40°	1290.4	1310.2	1352.5	1362.8	1358.6
42.5°	1241.0	1244.6	1280.9	1292.7	1273.9
45°	1155.1	1176.7	1196.2	1227.0	1198.0
47.5°	1081.9	1092.0	1134.1	1142.3	1127.0
50°	1015.5	1019.0	1061.4	1051.1	1041.1
52.5°	932.1	946.9	970.7	968.7	956.9
55°	863.4	857.7	880.2	874.2	874.0
57.5°	781.0	791.0	809.6	800.1	784.8
60°	703.8	704.1	710.9	700.1	698.1
62.5°	617.9	620.9	622.4	609.1	630.7
65°	530.4	523.4	544.0	523.2	526.7
67.5°	450.0	453.5	451.5	438.5	443.5
70°	368.3	372.8	369.6	354.8	359.3
72.5°	293.7	288.1	291.7	273.1	281.6
75°	220.7	216.2	220.2	204.7	211.7
77.5°	150.3	153.8	151.3	143.1	147.8
80°	99.2	96.5	96.5	91.7	92.7
82.5°	57.9	55.1	54.4	52.9	55.1
85°	27.1	26.3	26.8	26.1	25.1
87.5°	9.8	10.0	10.0	9.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)