

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: P735733

Luminaire Tested: **24APR-67-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67-B2750-W2D-2700K
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

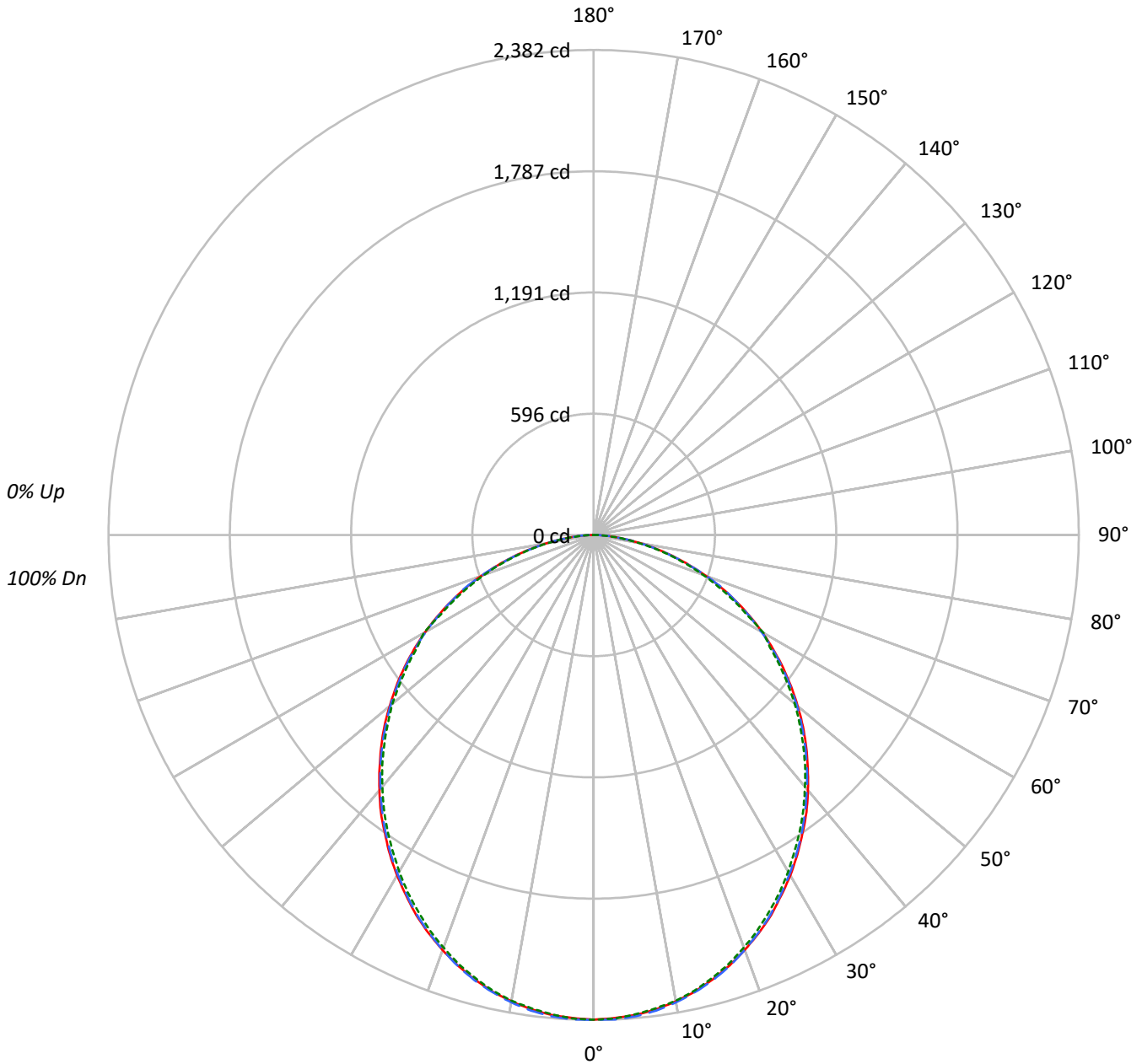
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6342.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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									
RC	80									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	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	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	44	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°	3204	3204	3204
5°	3197	3206	3192
10°	3178	3186	3174
15°	3148	3154	3137
20°	3107	3106	3088
25°	3060	3053	3029
30°	3000	2989	2967
35°	2937	2927	2903
40°	2874	2860	2834
45°	2809	2794	2765
50°	2736	2725	2698
55°	2662	2647	2613
60°	2572	2556	2591
65°	2455	2448	2401
70°	2304	2307	2244
75°	2091	2075	2028
80°	1797	1774	1726
85°	1372	1362	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	3.5
10°-20°	637.1	10.0
20°-30°	945.6	14.9
30°-40°	1113.1	17.6
40°-50°	1131.2	17.8
50°-60°	1005.6	15.9
60°-70°	758.5	12.0
70°-80°	421.3	6.6
80°-90°	104.8	1.7
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°	1807.6	28.5
0°-40°	2920.7	46.1
0°-60°	5057.4	79.7
0°-90°	6342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2367	2370	2373	2370	2364	225
15°	2260	2262	2264	2259	2252	637
25°	2061	2059	2056	2047	2040	948
35°	1788	1789	1782	1771	1767	1119
45°	1476	1476	1468	1456	1453	1139
55°	1135	1126	1128	1116	1114	1014
65°	771	766	769	759	754	763
75°	402	397	399	396	390	427
85°	89	87	88	84	81	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2375.0	2379.5	2382.5	2378.8	2378.0
5°	2366.7	2370.4	2373.4	2369.7	2363.6
7.5°	2349.9	2354.5	2356.7	2352.9	2344.6
10°	2326.3	2330.9	2331.6	2327.9	2323.2
12.5°	2297.4	2300.5	2300.5	2297.4	2292.1
15°	2260.1	2262.5	2263.9	2258.7	2251.8
17.5°	2217.6	2221.3	2219.9	2211.5	2208.5
20°	2169.7	2172.7	2168.9	2163.6	2156.7
22.5°	2117.2	2118.0	2114.9	2108.8	2101.9
25°	2060.9	2059.4	2056.4	2047.3	2040.4
27.5°	1995.5	1998.6	1990.9	1982.5	1978.0
30°	1930.9	1931.6	1924.0	1913.3	1909.6
32.5°	1861.7	1860.1	1854.8	1843.4	1837.3
35°	1787.8	1788.6	1781.7	1771.2	1767.3
37.5°	1716.4	1711.9	1706.6	1694.4	1692.0
40°	1636.5	1635.7	1628.2	1617.5	1613.8
42.5°	1556.7	1555.9	1549.8	1539.3	1536.2
45°	1476.1	1476.1	1468.4	1456.3	1453.2
47.5°	1393.9	1390.9	1385.6	1375.0	1371.2
50°	1307.2	1305.0	1301.9	1289.8	1289.0
52.5°	1222.1	1220.5	1215.2	1204.6	1198.6
55°	1134.6	1126.3	1128.5	1116.4	1114.1
57.5°	1044.9	1036.5	1041.0	1030.5	1026.0
60°	955.9	947.6	949.8	943.0	962.8
62.5°	864.7	859.3	859.3	875.3	846.5
65°	771.2	766.5	768.9	759.0	754.3
67.5°	679.2	672.3	686.7	668.4	660.9
70°	585.6	580.9	586.4	575.6	570.4
72.5°	492.8	489.0	487.5	483.7	479.2
75°	402.3	397.0	399.2	396.2	390.1
77.5°	314.1	312.5	311.8	308.0	303.4
80°	231.9	230.4	228.9	225.8	222.8
82.5°	155.1	153.7	152.9	151.3	150.6
85°	88.9	86.7	88.2	84.4	81.4
87.5°	33.5	32.7	34.3	31.2	28.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)