

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: P735748

Luminaire Tested: **24APR-85-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735748
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-85-B2750-W2D-2700K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

Summary

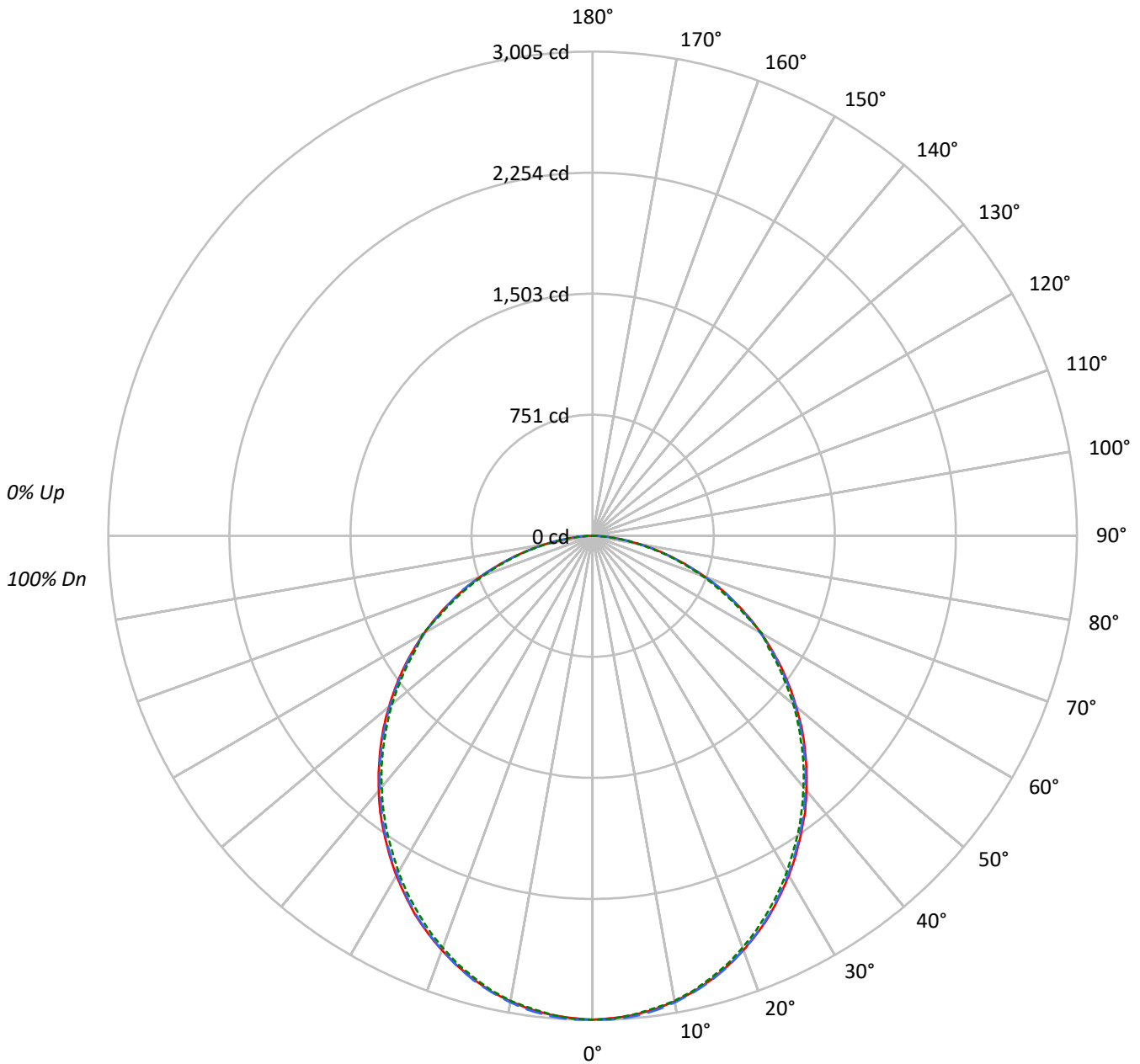
Lumens per Lamp: N/A
Luminaire Lumens: 7999.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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°	4041	4041	4041
5°	4032	4043	4026
10°	4009	4018	4004
15°	3971	3978	3956
20°	3918	3917	3895
25°	3859	3851	3821
30°	3784	3770	3742
35°	3704	3691	3661
40°	3625	3607	3575
45°	3543	3524	3488
50°	3451	3437	3403
55°	3357	3339	3296
60°	3245	3224	3268
65°	3096	3088	3029
70°	2906	2910	2830
75°	2638	2617	2558
80°	2266	2237	2177
85°	1732	1717	1585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	3.5
10°-20°	803.5	10.0
20°-30°	1192.7	14.9
30°-40°	1403.9	17.6
40°-50°	1426.7	17.8
50°-60°	1268.3	15.9
60°-70°	956.7	12.0
70°-80°	531.4	6.6
80°-90°	132.1	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°	2279.9	28.5
0°-40°	3683.8	46.1
0°-60°	6378.8	79.7
0°-90°	7999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3003	3003	3003	3003	3003	
5°	2985	2990	2994	2989	2981	283
15°	2851	2854	2856	2849	2840	804
25°	2599	2598	2594	2582	2574	1196
35°	2255	2256	2247	2234	2229	1412
45°	1862	1862	1852	1837	1833	1436
55°	1431	1421	1423	1408	1405	1279
65°	973	967	970	957	951	963
75°	507	501	504	500	492	538
85°	112	109	111	106	103	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	2995.5	3001.2	3005.0	3000.4	2999.4
5°	2985.0	2989.7	2993.5	2988.8	2981.2
7.5°	2963.8	2969.7	2972.5	2967.6	2957.1
10°	2934.1	2939.9	2940.8	2936.1	2930.3
12.5°	2897.7	2901.5	2901.5	2897.7	2891.0
15°	2850.6	2853.6	2855.5	2848.8	2840.1
17.5°	2797.0	2801.7	2799.9	2789.3	2785.5
20°	2736.6	2740.4	2735.6	2728.9	2720.2
22.5°	2670.3	2671.3	2667.5	2659.8	2651.1
25°	2599.4	2597.5	2593.7	2582.2	2573.5
27.5°	2516.9	2520.7	2511.0	2500.5	2494.9
30°	2435.4	2436.3	2426.7	2413.2	2408.5
32.5°	2348.1	2346.1	2339.4	2325.1	2317.4
35°	2255.0	2256.0	2247.3	2233.9	2229.1
37.5°	2164.8	2159.1	2152.4	2137.1	2134.1
40°	2064.1	2063.1	2053.6	2040.1	2035.4
42.5°	1963.5	1962.5	1954.8	1941.4	1937.6
45°	1861.8	1861.8	1852.1	1836.7	1832.9
47.5°	1758.1	1754.3	1747.6	1734.2	1729.4
50°	1648.8	1645.9	1642.1	1626.7	1625.7
52.5°	1541.4	1539.4	1532.7	1519.4	1511.7
55°	1431.1	1420.6	1423.4	1408.0	1405.2
57.5°	1317.9	1307.4	1313.0	1299.7	1294.0
60°	1205.7	1195.2	1198.0	1189.3	1214.4
62.5°	1090.7	1083.8	1083.8	1104.0	1067.6
65°	972.6	966.8	969.8	957.3	951.4
67.5°	856.6	847.9	866.1	843.1	833.6
70°	738.6	732.7	739.6	726.1	719.4
72.5°	621.5	616.7	614.9	610.0	604.3
75°	507.4	500.7	503.5	499.7	492.0
77.5°	396.2	394.2	393.3	388.5	382.6
80°	292.5	290.7	288.7	284.8	281.0
82.5°	195.7	193.8	192.8	190.8	190.0
85°	112.2	109.4	111.2	106.5	102.7
87.5°	42.2	41.2	43.2	39.4	36.4
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)