

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: P735749

Luminaire Tested: **24APR-85-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735749
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-3000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT

Light Source: -
Ballast/Driver: -

Summary

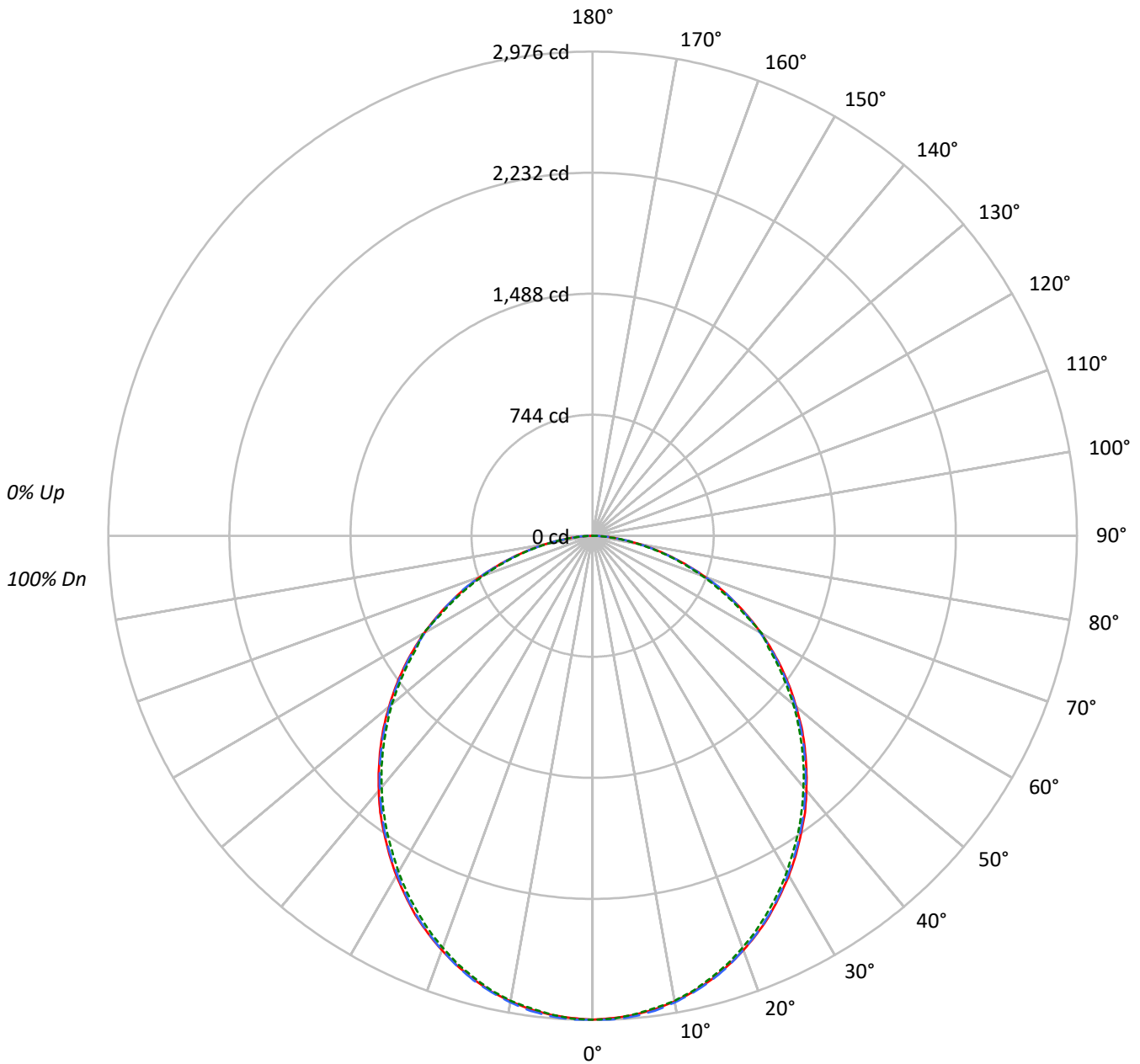
Lumens per Lamp: N/A
Luminaire Lumens: 7922.1 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4002	4002	4002
5°	3993	4004	3988
10°	3970	3979	3965
15°	3933	3939	3918
20°	3881	3879	3857
25°	3822	3813	3784
30°	3747	3734	3706
35°	3668	3656	3626
40°	3591	3572	3541
45°	3509	3490	3454
50°	3418	3404	3370
55°	3325	3307	3265
60°	3213	3193	3236
65°	3067	3058	3000
70°	2878	2882	2803
75°	2612	2593	2533
80°	2245	2215	2156
85°	1715	1700	1570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	3.5
10°-20°	795.8	10.0
20°-30°	1181.2	14.9
30°-40°	1390.4	17.6
40°-50°	1413.0	17.8
50°-60°	1256.1	15.9
60°-70°	947.5	12.0
70°-80°	526.3	6.6
80°-90°	130.9	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°	2257.9	28.5
0°-40°	3648.3	46.1
0°-60°	6317.4	79.7
0°-90°	7922.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7922.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2956	2961	2965	2960	2952	281
15°	2823	2826	2828	2821	2813	796
25°	2574	2572	2569	2557	2549	1185
35°	2233	2234	2226	2212	2208	1398
45°	1844	1844	1834	1819	1815	1422
55°	1417	1407	1410	1394	1392	1266
65°	963	958	960	948	942	954
75°	502	496	499	495	487	533
85°	111	108	110	106	102	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2974.3	2974.3	2974.3	2974.3	2974.3
2.5°	2966.7	2972.3	2976.1	2971.5	2970.5
5°	2956.3	2960.9	2964.7	2960.1	2952.5
7.5°	2935.3	2941.1	2943.9	2939.1	2928.7
10°	2905.8	2911.6	2912.5	2907.8	2902.0
12.5°	2869.8	2873.6	2873.6	2869.8	2863.2
15°	2823.2	2826.2	2828.0	2821.4	2812.8
17.5°	2770.1	2774.7	2772.9	2762.5	2758.7
20°	2710.2	2714.1	2709.3	2702.6	2694.0
22.5°	2644.6	2645.6	2641.8	2634.2	2625.6
25°	2574.3	2572.5	2568.7	2557.3	2548.7
27.5°	2492.7	2496.5	2486.9	2476.5	2470.8
30°	2412.0	2412.8	2403.4	2390.0	2385.4
32.5°	2325.5	2323.5	2316.9	2302.7	2295.1
35°	2233.2	2234.2	2225.6	2212.4	2207.6
37.5°	2144.0	2138.3	2131.7	2116.5	2113.5
40°	2044.3	2043.3	2033.8	2020.5	2015.8
42.5°	1944.6	1943.6	1936.0	1922.7	1918.9
45°	1843.9	1843.9	1834.3	1819.1	1815.3
47.5°	1741.2	1737.4	1730.8	1717.5	1712.8
50°	1632.9	1630.1	1626.3	1611.1	1610.1
52.5°	1526.6	1524.6	1518.0	1504.8	1497.2
55°	1417.3	1406.9	1409.7	1394.5	1391.7
57.5°	1305.2	1294.8	1300.4	1287.2	1281.5
60°	1194.1	1183.7	1186.5	1177.9	1202.7
62.5°	1080.2	1073.4	1073.4	1093.4	1057.3
65°	963.3	957.5	960.5	948.1	942.3
67.5°	848.4	839.8	857.8	835.0	825.5
70°	731.5	725.7	732.5	719.1	712.4
72.5°	615.6	610.8	608.9	604.2	598.5
75°	502.5	495.9	498.7	494.9	487.3
77.5°	392.4	390.4	389.5	384.7	379.0
80°	289.7	287.9	285.9	282.1	278.3
82.5°	193.8	192.0	191.0	189.0	188.2
85°	111.1	108.3	110.1	105.5	101.7
87.5°	41.8	40.8	42.8	39.0	36.0
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)