

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: P735656

Luminaire Tested: **22APR-22-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-B2750-W2D-CP250-4000K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

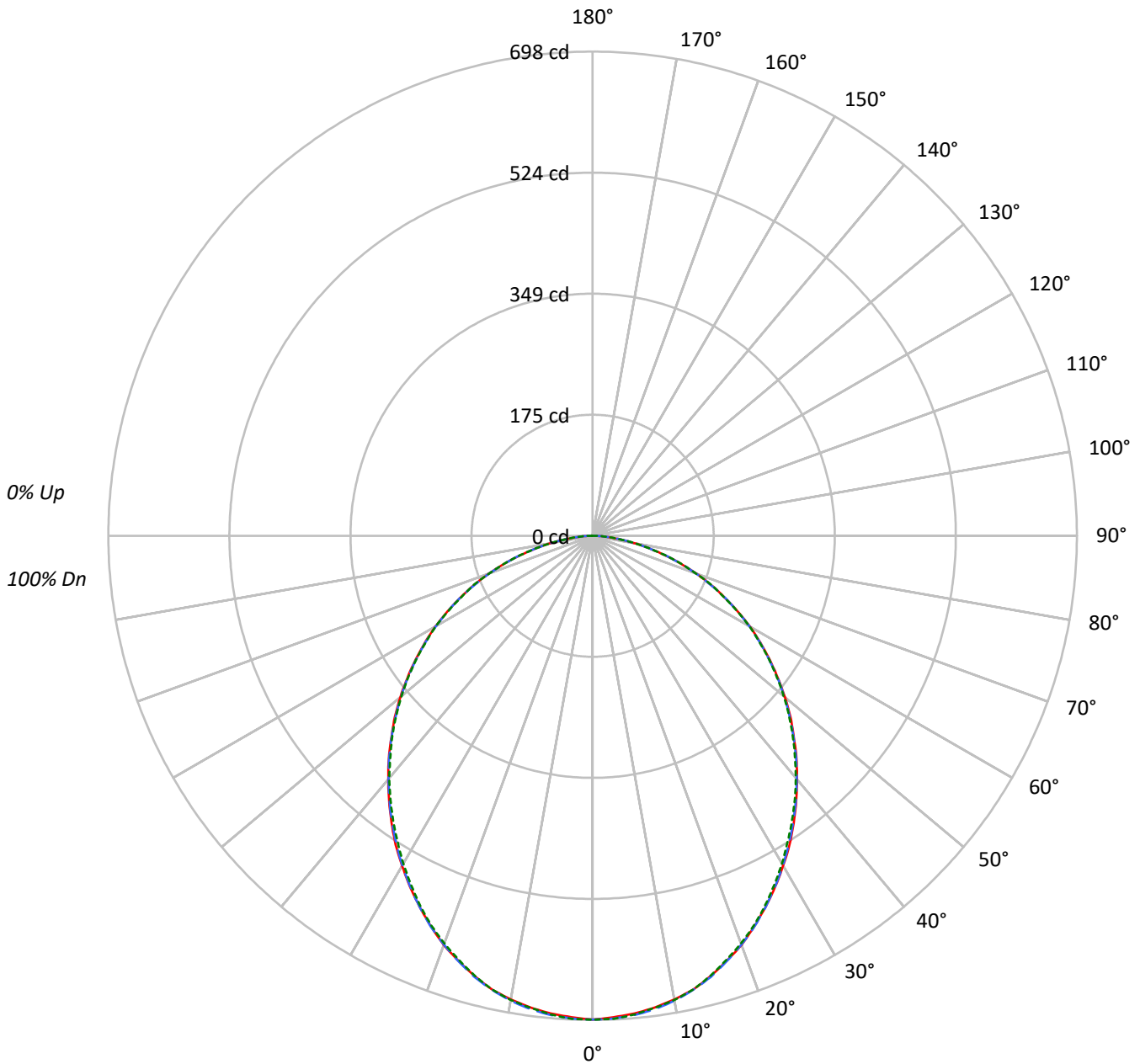
Lumens per Lamp: N/A
Luminaire Lumens: 1781.9 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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

TEST NUMBER: P735656

CATALOG NUMBER: 22APR-22-B2750-W2D-CP250-4000K

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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1877	1877	1877
5°	1867	1874	1871
10°	1855	1860	1857
15°	1831	1835	1829
20°	1798	1796	1791
25°	1752	1752	1746
30°	1707	1705	1696
35°	1660	1655	1646
40°	1609	1607	1601
45°	1560	1558	1553
50°	1515	1508	1505
55°	1462	1455	1455
60°	1407	1403	1405
65°	1334	1337	1328
70°	1247	1239	1239
75°	1111	1117	1117
80°	941	941	948
85°	713	713	729



TEST NUMBER: P735656

CATALOG NUMBER: 22APR-22-B2750-W2D-CP250-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.7
10°-20°	185.3	10.4
20°-30°	271.7	15.2
30°-40°	315.2	17.7
40°-50°	316.1	17.7
50°-60°	278.0	15.6
60°-70°	207.4	11.6
70°-80°	114.1	6.4
80°-90°	28.3	1.6
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°	522.8	29.3
0°-40°	838.1	47.0
0°-60°	1432.1	80.4
0°-90°	1781.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	691	694	694	694	693	66
15°	657	660	658	658	657	185
25°	590	592	590	590	588	272
35°	505	506	504	502	501	316
45°	410	411	410	409	408	317
55°	312	312	310	311	310	279
65°	210	210	210	209	209	208
75°	107	107	107	106	107	114
85°	23	24	23	23	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.5	697.5	697.5	697.5	697.5
2.5°	694.6	697.0	696.5	698.0	697.0
5°	691.3	693.7	693.7	693.7	692.7
7.5°	685.9	688.3	688.3	688.3	686.4
10°	678.8	681.2	680.7	680.7	679.7
12.5°	670.1	671.5	670.5	670.5	670.1
15°	657.1	659.9	658.5	657.5	656.6
17.5°	642.6	645.5	643.1	642.6	641.2
20°	627.7	629.6	627.2	627.2	625.3
22.5°	609.3	611.2	609.8	608.9	607.9
25°	590.1	592.5	590.1	589.6	588.2
27.5°	570.3	572.2	569.8	567.9	567.0
30°	549.2	550.6	548.7	547.2	545.7
32.5°	528.4	528.4	526.5	525.1	523.2
35°	505.3	505.8	503.9	502.4	501.0
37.5°	482.2	483.1	481.2	479.8	478.8
40°	458.1	459.1	457.6	456.1	455.7
42.5°	435.0	435.0	434.1	432.6	431.6
45°	410.0	411.4	409.5	409.0	408.0
47.5°	386.8	386.8	384.9	383.9	383.9
50°	361.8	362.7	360.3	359.8	359.4
52.5°	336.7	336.2	335.7	335.3	334.8
55°	311.6	312.1	310.2	310.7	310.2
57.5°	286.6	286.1	285.6	285.2	284.7
60°	261.5	261.1	260.6	260.1	261.1
62.5°	235.5	236.0	234.6	236.0	234.1
65°	209.5	209.5	210.0	209.0	208.6
67.5°	184.5	184.5	183.5	183.5	185.4
70°	158.5	158.9	157.5	159.4	157.5
72.5°	132.9	133.4	132.9	132.4	133.4
75°	106.9	107.4	107.4	106.4	107.4
77.5°	83.3	83.8	83.3	82.8	83.3
80°	60.7	61.2	60.7	60.2	61.2
82.5°	40.4	40.9	40.4	40.4	40.9
85°	23.1	23.6	23.1	23.1	23.6
87.5°	9.2	9.7	9.7	9.7	9.7
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)