

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: P735653

Luminaire Tested: **22APR-22-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735653
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-CP250-2700K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

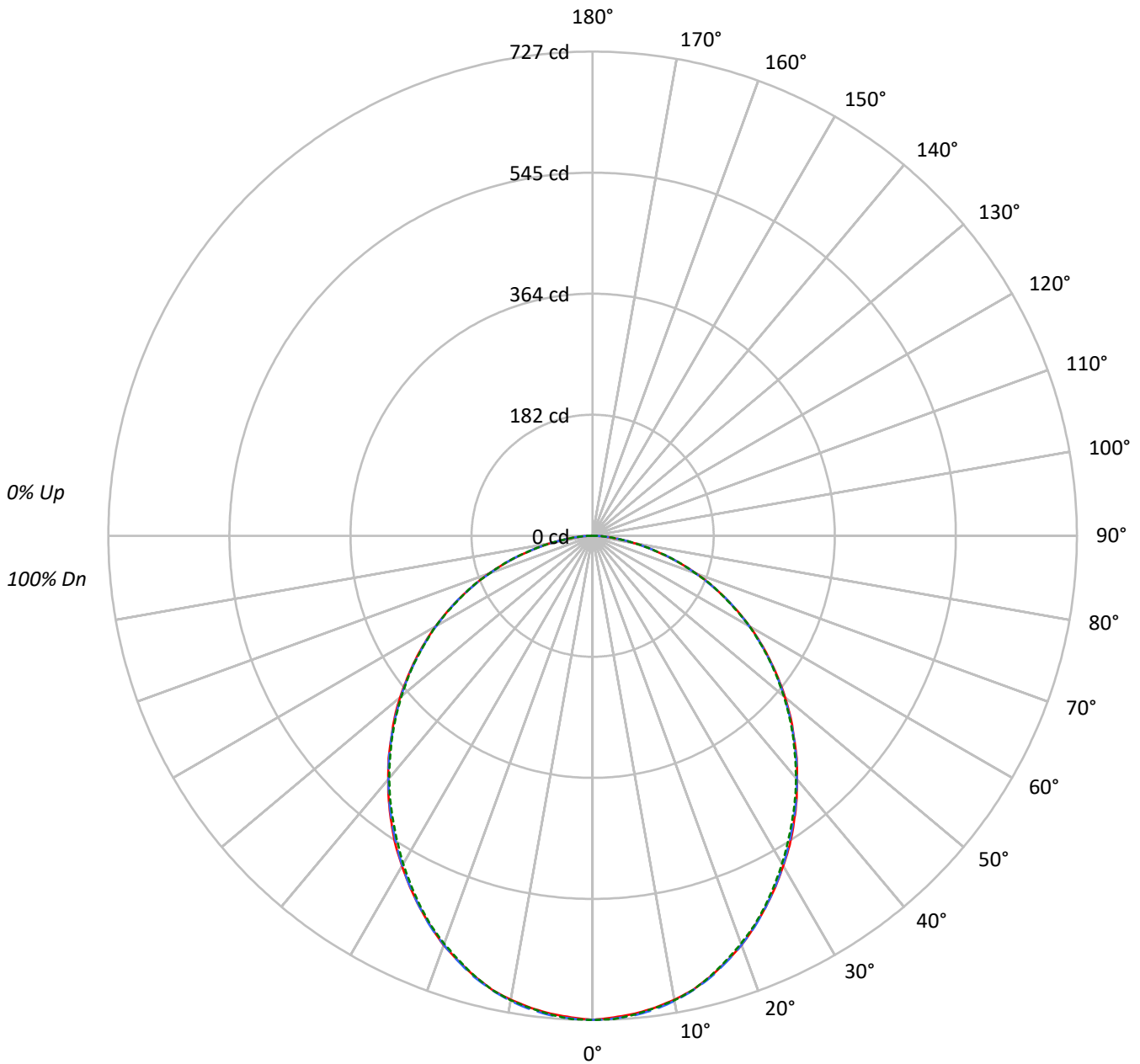
Lumens per Lamp: N/A
Luminaire Lumens: 1857.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45				45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39				39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35				35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31				31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28				28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1956	1956	1956
5°	1946	1953	1950
10°	1933	1938	1935
15°	1908	1912	1906
20°	1873	1872	1866
25°	1826	1826	1820
30°	1778	1776	1767
35°	1730	1725	1715
40°	1677	1675	1668
45°	1626	1624	1618
50°	1578	1572	1568
55°	1523	1517	1517
60°	1467	1462	1464
65°	1390	1394	1384
70°	1300	1292	1292
75°	1158	1164	1164
80°	979	979	987
85°	744	744	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.7
10°-20°	193.1	10.4
20°-30°	283.2	15.2
30°-40°	328.5	17.7
40°-50°	329.4	17.7
50°-60°	289.7	15.6
60°-70°	216.2	11.6
70°-80°	119.0	6.4
80°-90°	29.4	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°	544.8	29.3
0°-40°	873.4	47.0
0°-60°	1492.4	80.4
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	720	723	723	723	722	68
15°	685	688	686	685	684	193
25°	615	617	615	614	613	283
35°	527	527	525	524	522	329
45°	427	429	427	426	425	330
55°	325	325	323	324	323	290
65°	218	218	219	218	217	216
75°	111	112	112	111	112	119
85°	24	25	24	24	25	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.9	726.9	726.9	726.9	726.9
2.5°	723.8	726.3	725.8	727.4	726.3
5°	720.4	722.9	722.9	722.9	721.8
7.5°	714.8	717.3	717.3	717.3	715.3
10°	707.3	709.8	709.3	709.3	708.3
12.5°	698.3	699.8	698.7	698.7	698.3
15°	684.7	687.7	686.2	685.2	684.2
17.5°	669.6	672.7	670.2	669.6	668.2
20°	654.1	656.1	653.6	653.6	651.6
22.5°	635.0	637.0	635.5	634.5	633.5
25°	614.9	617.4	614.9	614.4	612.9
27.5°	594.3	596.3	593.8	591.8	590.9
30°	572.3	573.7	571.7	570.3	568.7
32.5°	550.6	550.6	548.6	547.2	545.2
35°	526.6	527.1	525.1	523.5	522.1
37.5°	502.5	503.5	501.5	500.0	499.0
40°	477.4	478.4	476.9	475.3	474.9
42.5°	453.3	453.3	452.3	450.8	449.8
45°	427.2	428.7	426.7	426.2	425.1
47.5°	403.1	403.1	401.1	400.0	400.0
50°	377.0	378.0	375.5	374.9	374.5
52.5°	350.9	350.4	349.8	349.4	348.9
55°	324.7	325.3	323.3	323.8	323.3
57.5°	298.7	298.2	297.6	297.2	296.7
60°	272.5	272.1	271.6	271.1	272.1
62.5°	245.4	246.0	244.5	246.0	244.0
65°	218.3	218.3	218.9	217.8	217.4
67.5°	192.3	192.3	191.2	191.2	193.2
70°	165.2	165.6	164.2	166.1	164.2
72.5°	138.5	139.1	138.5	138.0	139.1
75°	111.4	112.0	112.0	110.9	112.0
77.5°	86.9	87.4	86.9	86.3	86.9
80°	63.2	63.7	63.2	62.7	63.7
82.5°	42.1	42.6	42.1	42.1	42.6
85°	24.1	24.6	24.1	24.1	24.6
87.5°	9.6	10.1	10.1	10.1	10.1
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)