

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: P735689

Luminaire Tested: **22APR-38-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735689
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-38-B2750-W2D-3000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT

Light Source: -
Ballast/Driver: -

Summary

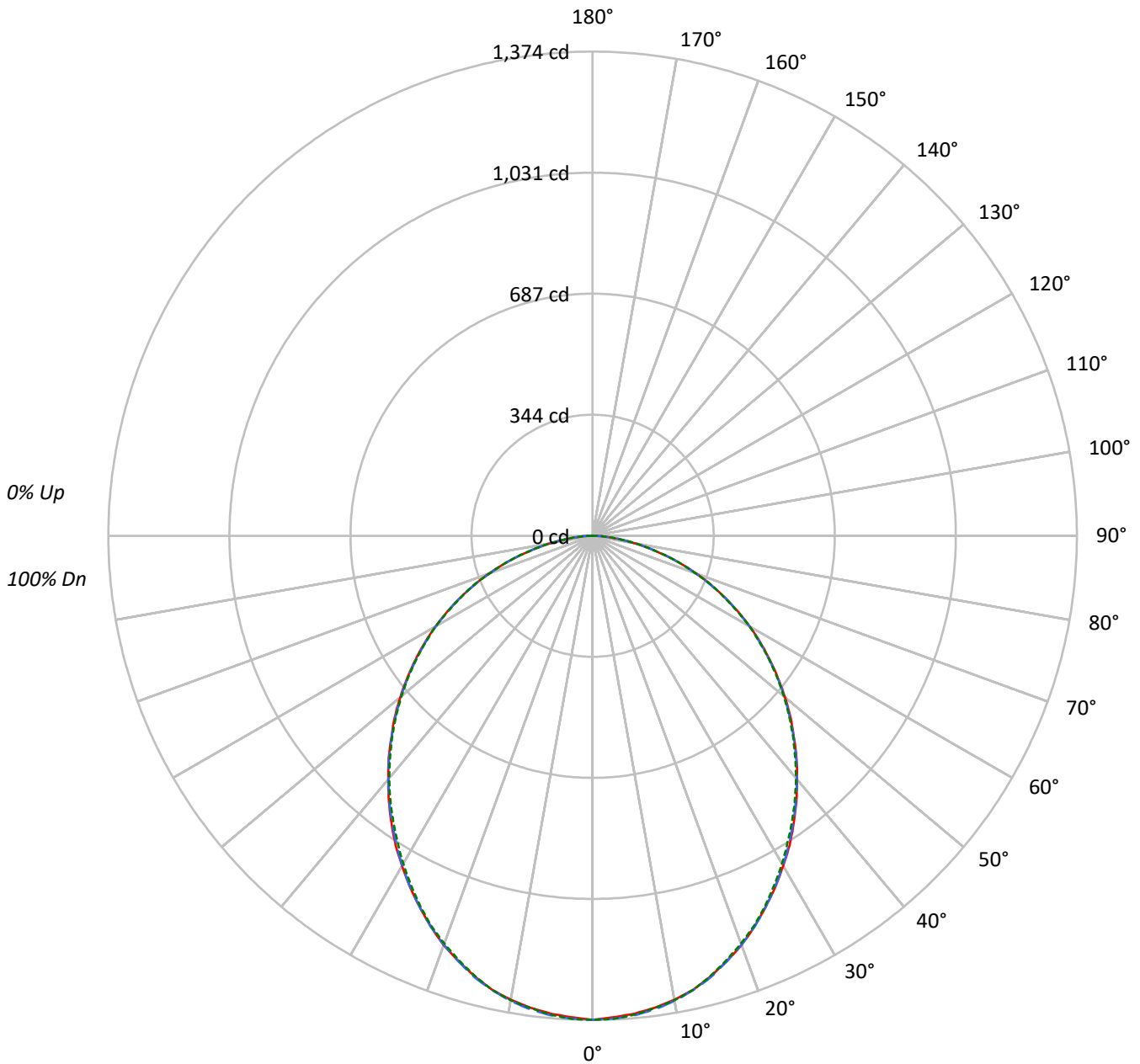
Lumens per Lamp: N/A
Luminaire Lumens: 3509.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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: P735689

CATALOG NUMBER: 22APR-38-B2750-W2D-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
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°	3696	3696	3696
5°	3677	3690	3685
10°	3652	3662	3657
15°	3605	3612	3602
20°	3540	3537	3526
25°	3450	3450	3439
30°	3360	3357	3339
35°	3269	3259	3241
40°	3169	3166	3152
45°	3072	3068	3057
50°	2982	2970	2963
55°	2879	2866	2866
60°	2772	2762	2767
65°	2627	2634	2616
70°	2456	2441	2441
75°	2190	2199	2199
80°	1852	1852	1867
85°	1405	1405	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.7
10°-20°	364.9	10.4
20°-30°	535.1	15.2
30°-40°	620.8	17.7
40°-50°	622.4	17.7
50°-60°	547.4	15.6
60°-70°	408.5	11.6
70°-80°	224.8	6.4
80°-90°	55.6	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°	1029.5	29.3
0°-40°	1650.3	47.0
0°-60°	2820.1	80.4
0°-90°	3509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1361	1366	1366	1366	1364	129
15°	1294	1300	1297	1295	1293	365
25°	1162	1167	1162	1161	1158	535
35°	995	996	992	989	986	622
45°	807	810	806	805	803	624
55°	614	615	611	612	611	549
65°	413	413	414	412	411	409
75°	211	212	212	210	212	225
85°	46	46	46	46	46	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.5	1373.5	1373.5	<i>1373.5</i>	1373.5
2.5°	<i>1367.7</i>	<i>1372.5</i>	<i>1371.5</i>	<i>1374.5</i>	<i>1372.5</i>
5°	1361.2	1365.9	1365.9	<i>1365.9</i>	1364.0
7.5°	1350.7	1355.4	1355.4	<i>1355.4</i>	1351.7
10°	1336.6	1341.3	1340.3	<i>1340.3</i>	1338.4
12.5°	1319.5	1322.3	1320.3	<i>1320.3</i>	1319.5
15°	1293.9	1299.5	1296.7	<i>1294.7</i>	1292.9
17.5°	1265.3	1271.1	1266.3	<i>1265.3</i>	1262.5
20°	1236.0	1239.7	1235.0	<i>1235.0</i>	1231.2
22.5°	1199.9	1203.6	1200.8	<i>1199.0</i>	1197.1
25°	1161.9	1166.7	1161.9	<i>1161.0</i>	1158.2
27.5°	1123.1	1126.8	1122.1	<i>1118.3</i>	1116.5
30°	1081.4	1084.2	1080.4	<i>1077.6</i>	1074.6
32.5°	1040.5	1040.5	1036.7	<i>1033.9</i>	1030.2
35°	995.0	996.0	992.2	<i>989.3</i>	986.5
37.5°	949.6	951.4	947.6	<i>944.8</i>	942.9
40°	902.1	904.0	901.2	<i>898.2</i>	897.4
42.5°	856.5	856.5	854.7	<i>851.8</i>	850.0
45°	807.3	810.1	806.3	<i>805.3</i>	803.4
47.5°	761.7	761.7	757.9	<i>755.9</i>	755.9
50°	712.4	714.2	709.5	<i>708.5</i>	707.7
52.5°	663.0	662.0	661.1	<i>660.2</i>	659.3
55°	613.6	614.6	610.8	<i>611.8</i>	610.8
57.5°	564.4	563.4	562.4	<i>561.6</i>	560.6
60°	515.0	514.2	513.2	<i>512.2</i>	514.2
62.5°	463.8	464.8	462.0	<i>464.8</i>	461.0
65°	412.6	412.6	413.6	<i>411.6</i>	410.8
67.5°	363.4	363.4	361.4	<i>361.4</i>	365.2
70°	312.1	313.0	310.2	<i>314.0</i>	310.2
72.5°	261.8	262.8	261.8	<i>260.8</i>	262.8
75°	210.6	211.5	211.5	<i>209.6</i>	211.5
77.5°	164.1	165.1	164.1	<i>163.1</i>	164.1
80°	119.5	120.5	119.5	<i>118.5</i>	120.5
82.5°	79.6	80.6	79.6	<i>79.6</i>	80.6
85°	45.5	46.4	45.5	<i>45.5</i>	46.4
87.5°	18.1	19.0	19.0	<i>19.0</i>	19.0
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



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







(END OF REPORT)