

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: P735675

Luminaire Tested: **22APR-34-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735675
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-34-B2750-W2D-3500K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

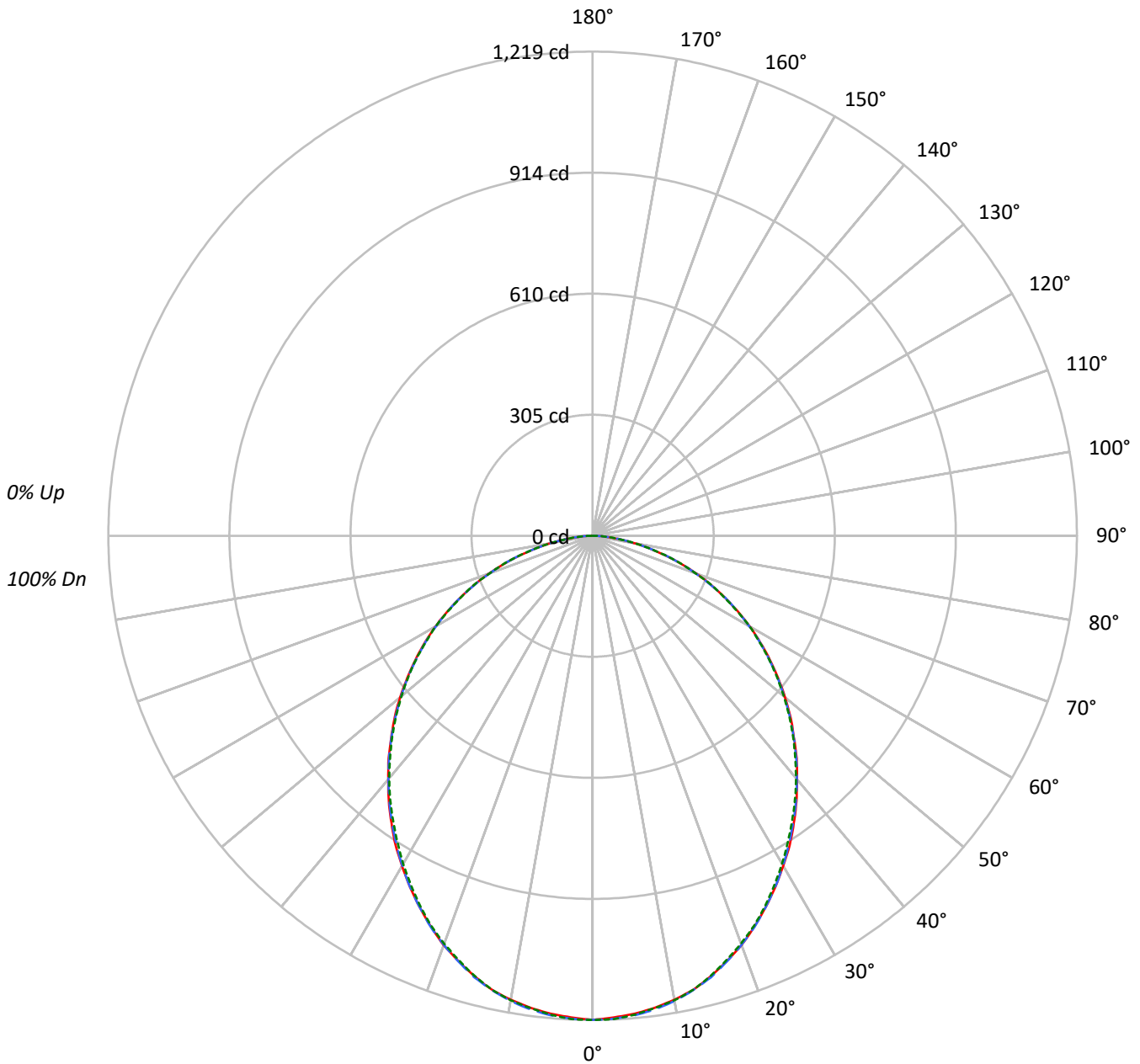
Lumens per Lamp: N/A
Luminaire Lumens: 3114.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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					
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°	3280	3280	3280
5°	3263	3274	3270
10°	3241	3250	3245
15°	3199	3206	3197
20°	3141	3139	3129
25°	3062	3062	3052
30°	2982	2979	2963
35°	2901	2893	2876
40°	2812	2809	2798
45°	2726	2723	2713
50°	2647	2636	2629
55°	2555	2543	2543
60°	2460	2451	2456
65°	2331	2337	2321
70°	2179	2166	2166
75°	1943	1952	1952
80°	1643	1643	1657
85°	1244	1244	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.7
10°-20°	323.9	10.4
20°-30°	474.9	15.2
30°-40°	550.9	17.7
40°-50°	552.3	17.7
50°-60°	485.8	15.6
60°-70°	362.5	11.6
70°-80°	199.5	6.4
80°-90°	49.3	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°	913.7	29.3
0°-40°	1464.6	47.0
0°-60°	2502.6	80.4
0°-90°	3114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1208	1212	1212	1212	1210	115
15°	1148	1153	1151	1149	1147	323
25°	1031	1035	1031	1030	1028	475
35°	883	884	881	878	876	552
45°	716	719	716	715	713	554
55°	545	545	542	543	542	487
65°	366	366	367	365	364	363
75°	187	188	188	186	188	199
85°	40	41	40	40	41	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.9	1218.9	1218.9	<i>1218.9</i>	1218.9
2.5°	<i>1213.8</i>	<i>1218.0</i>	<i>1217.1</i>	<i>1219.8</i>	<i>1218.0</i>
5°	1208.0	1212.2	1212.2	<i>1212.2</i>	1210.4
7.5°	1198.6	1202.9	1202.9	<i>1202.9</i>	1199.5
10°	1186.1	1190.3	1189.5	<i>1189.5</i>	1187.7
12.5°	1171.0	1173.4	1171.7	<i>1171.7</i>	1171.0
15°	1148.2	1153.2	1150.7	<i>1149.0</i>	1147.4
17.5°	1122.9	1128.0	1123.8	<i>1122.9</i>	1120.4
20°	1096.8	1100.2	1096.0	<i>1096.0</i>	1092.6
22.5°	1064.8	1068.1	1065.7	<i>1064.1</i>	1062.3
25°	1031.1	1035.4	1031.1	<i>1030.3</i>	1027.8
27.5°	996.6	1000.0	995.8	<i>992.4</i>	990.8
30°	959.6	962.1	958.8	<i>956.3</i>	953.7
32.5°	923.4	923.4	920.0	<i>917.5</i>	914.2
35°	883.0	883.9	880.6	<i>877.9</i>	875.5
37.5°	842.7	844.3	840.9	<i>838.5</i>	836.7
40°	800.6	802.2	799.7	<i>797.1</i>	796.4
42.5°	760.1	760.1	758.5	<i>755.9</i>	754.3
45°	716.4	718.9	715.5	<i>714.7</i>	712.9
47.5°	675.9	675.9	672.6	<i>670.8</i>	670.8
50°	632.2	633.8	629.6	<i>628.7</i>	628.0
52.5°	588.4	587.5	586.6	<i>585.9</i>	585.0
55°	544.6	545.4	542.1	<i>543.0</i>	542.1
57.5°	500.9	500.0	499.1	<i>498.4</i>	497.5
60°	457.0	456.3	455.4	<i>454.6</i>	456.3
62.5°	411.6	412.5	410.0	<i>412.5</i>	409.1
65°	366.1	366.1	367.0	<i>365.3</i>	364.5
67.5°	322.5	322.5	320.7	<i>320.7</i>	324.1
70°	277.0	277.7	275.3	<i>278.6</i>	275.3
72.5°	232.3	233.2	232.3	<i>231.4</i>	233.2
75°	186.9	187.7	187.7	<i>186.0</i>	187.7
77.5°	145.6	146.5	145.6	<i>144.8</i>	145.6
80°	106.0	106.9	106.0	<i>105.2</i>	106.9
82.5°	70.6	71.5	70.6	<i>70.6</i>	71.5
85°	40.3	41.2	40.3	<i>40.3</i>	41.2
87.5°	16.0	16.9	16.9	<i>16.9</i>	16.9
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)