

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: P734048

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-B2750-W2D-CP187-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

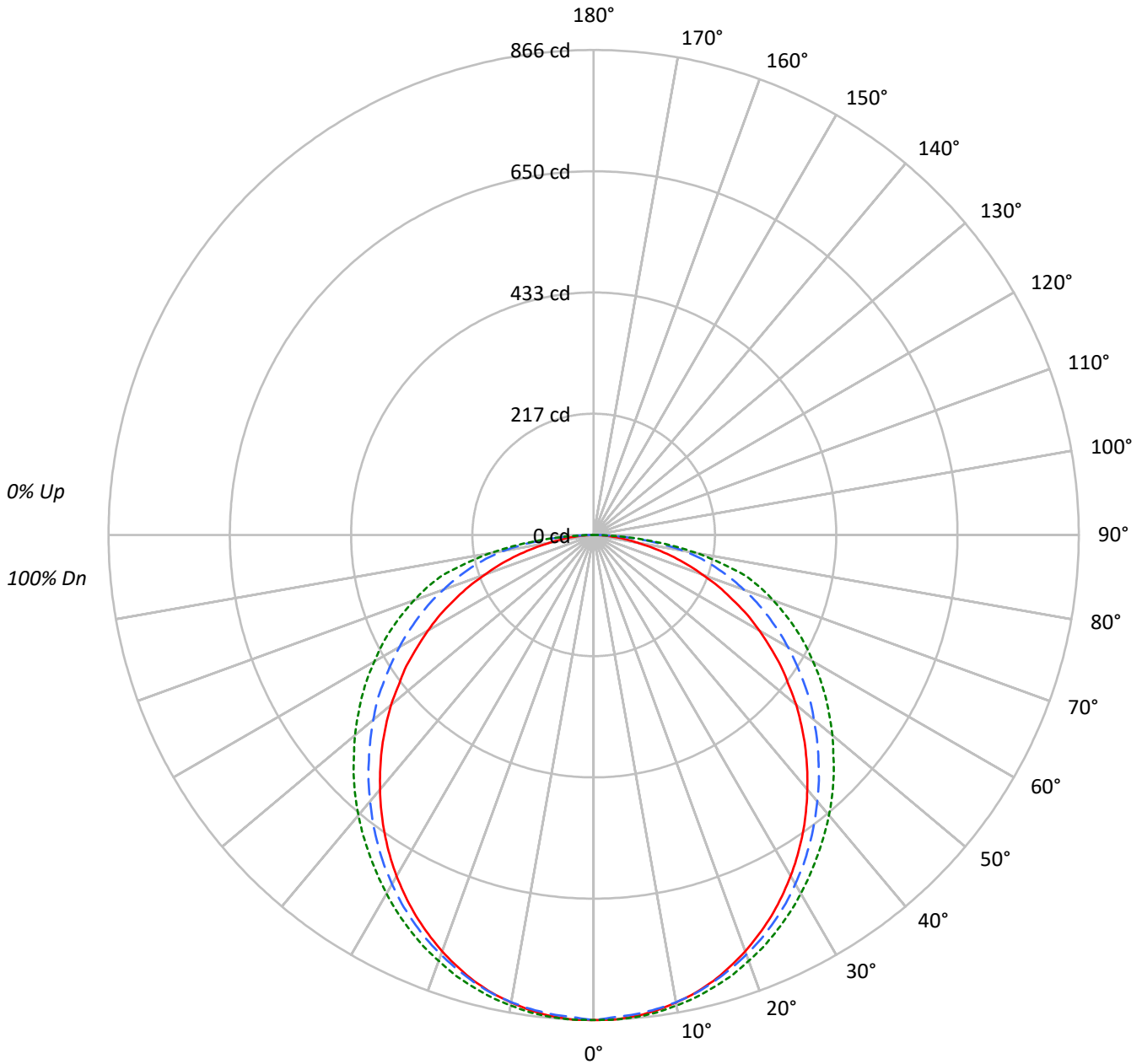
Lumens per Lamp: N/A
Luminaire Lumens: 2580.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1223	1223	1223
5°	1222	1217	1225
10°	1215	1214	1223
15°	1205	1208	1220
20°	1188	1198	1216
25°	1169	1187	1211
30°	1146	1173	1205
35°	1121	1159	1202
40°	1093	1144	1204
45°	1066	1133	1210
50°	1036	1127	1221
55°	1004	1125	1244
60°	965	1130	1276
65°	914	1147	1331
70°	849	1176	1407
75°	775	1235	1526
80°	637	1330	1526
85°	487	1227	1310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.2
10°-20°	233.9	9.1
20°-30°	352.0	13.6
30°-40°	421.8	16.3
40°-50°	439.6	17.0
50°-60°	409.0	15.9
60°-70°	336.8	13.1
70°-80°	229.4	8.9
80°-90°	75.7	2.9
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°	667.8	25.9
0°-40°	1089.6	42.2
0°-60°	1938.1	75.1
0°-90°	2580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	863	863	859	864	864	82
15°	825	826	827	834	835	232
25°	751	754	762	775	778	346
35°	651	659	672	691	697	407
45°	534	545	568	596	606	412
55°	408	422	457	493	505	364
65°	274	297	344	384	399	272
75°	142	174	226	267	280	150
85°	30	58	76	81	81	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.3	866.3	866.3	866.3	866.3
2.5°	866.3	866.3	861.9	866.3	866.3
5°	862.7	862.7	859.3	863.7	864.5
7.5°	856.7	857.7	854.2	859.3	860.2
10°	848.1	849.0	847.3	852.5	853.3
12.5°	837.8	838.7	838.7	844.7	845.6
15°	824.9	825.8	826.6	834.4	835.2
17.5°	808.6	811.2	812.8	822.4	824.0
20°	791.3	793.9	797.4	807.6	809.4
22.5°	771.5	774.9	781.0	792.2	794.8
25°	750.9	754.3	762.1	774.9	777.5
27.5°	727.6	732.8	742.2	756.0	759.5
30°	703.5	708.6	719.8	734.5	739.7
32.5°	677.7	684.5	697.4	713.8	719.0
35°	650.9	658.7	672.5	690.6	697.4
37.5°	622.6	631.2	647.5	667.3	675.9
40°	593.3	603.6	620.8	644.1	653.5
42.5°	563.9	573.5	595.0	620.0	630.3
45°	533.9	545.1	567.5	595.8	606.2
47.5°	502.8	514.0	540.7	570.9	580.3
50°	471.9	483.1	513.2	545.1	556.3
52.5°	438.3	452.9	487.4	519.2	530.4
55°	408.2	421.9	457.3	493.4	505.4
57.5°	373.7	390.0	428.8	466.7	479.6
60°	341.9	359.1	400.4	439.1	452.1
62.5°	309.2	328.1	372.0	411.6	426.2
65°	273.8	297.0	343.5	384.0	398.6
67.5°	241.9	266.1	315.2	356.5	369.4
70°	205.8	235.1	285.0	326.4	341.0
72.5°	174.8	204.0	256.5	297.0	311.7
75°	142.1	173.9	226.5	266.9	279.8
77.5°	109.4	144.7	197.2	228.2	232.5
80°	78.4	115.4	163.6	181.7	187.7
82.5°	55.1	88.7	120.6	132.6	136.1
85°	30.1	58.5	75.8	80.9	80.9
87.5°	12.9	25.0	30.1	31.0	31.9
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)