

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: P734060

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734060
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-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

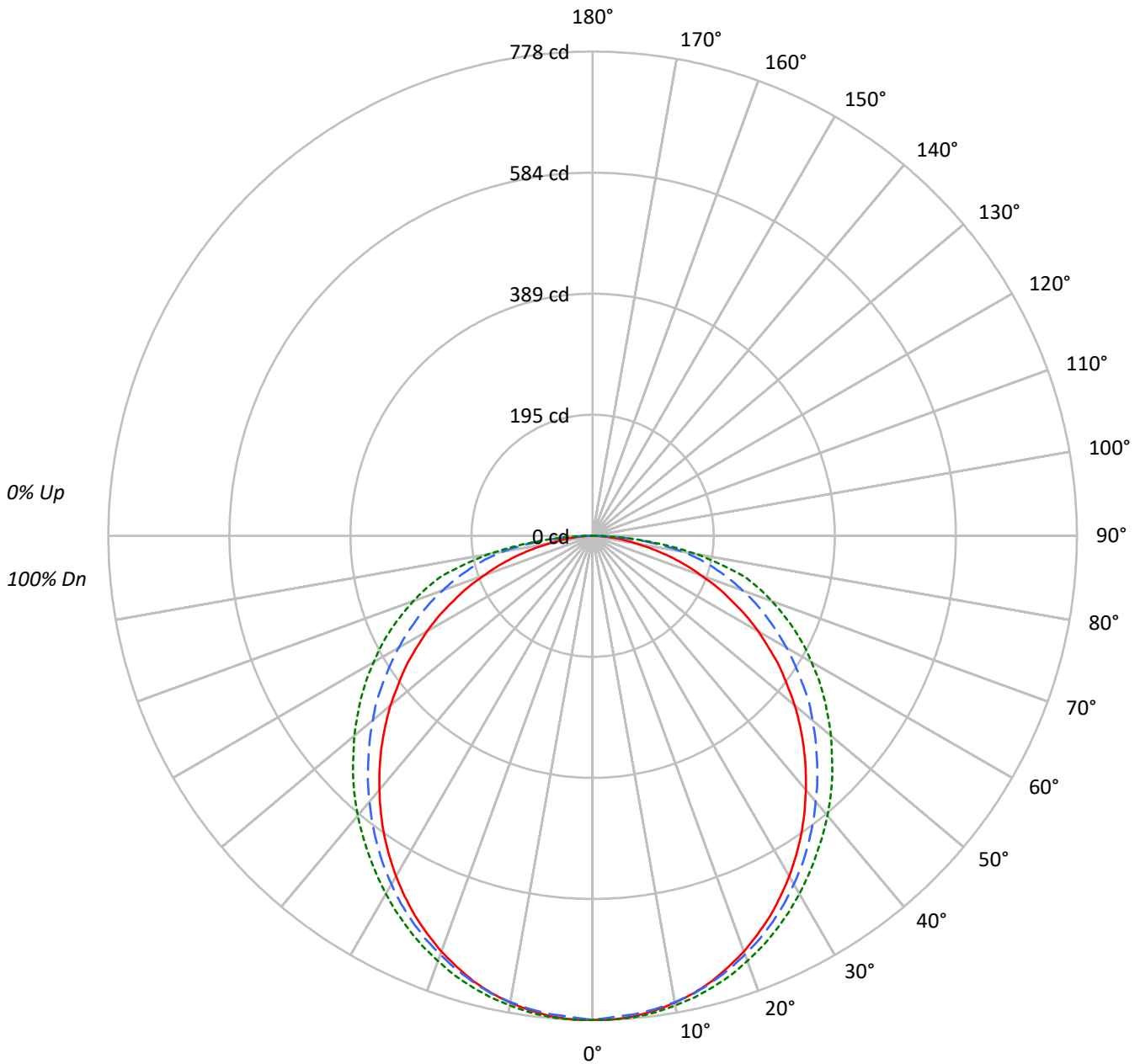
Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1098	1098	1098
5°	1098	1093	1100
10°	1092	1090	1098
15°	1082	1085	1096
20°	1067	1076	1092
25°	1050	1066	1087
30°	1030	1054	1083
35°	1007	1041	1079
40°	982	1027	1081
45°	957	1017	1087
50°	931	1012	1097
55°	902	1010	1117
60°	867	1015	1146
65°	821	1030	1196
70°	763	1056	1264
75°	696	1109	1370
80°	572	1194	1370
85°	437	1101	1177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.2
10°-20°	210.0	9.1
20°-30°	316.1	13.6
30°-40°	378.8	16.3
40°-50°	394.7	17.0
50°-60°	367.3	15.9
60°-70°	302.5	13.1
70°-80°	206.0	8.9
80°-90°	68.0	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°	599.7	25.9
0°-40°	978.5	42.2
0°-60°	1740.5	75.1
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	775	775	772	776	776	74
15°	741	742	742	749	750	209
25°	674	677	684	696	698	310
35°	585	592	604	620	626	365
45°	479	490	510	535	544	370
55°	367	379	411	443	454	327
65°	246	267	308	345	358	244
75°	128	156	203	240	251	135
85°	27	53	68	73	73	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.0	778.0	778.0	778.0	778.0
2.5°	778.0	778.0	774.0	778.0	778.0
5°	774.8	774.8	771.7	775.6	776.4
7.5°	769.4	770.2	767.1	771.7	772.6
10°	761.7	762.5	760.9	765.6	766.3
12.5°	752.4	753.2	753.2	758.6	759.4
15°	740.8	741.6	742.4	749.3	750.1
17.5°	726.1	728.5	730.0	738.5	740.0
20°	710.7	713.0	716.1	725.3	726.9
22.5°	692.9	695.9	701.3	711.4	713.7
25°	674.3	677.4	684.4	695.9	698.3
27.5°	653.4	658.1	666.6	679.0	682.1
30°	631.8	636.4	646.5	659.6	664.3
32.5°	608.6	614.8	626.3	641.0	645.7
35°	584.6	591.6	604.0	620.2	626.3
37.5°	559.1	566.9	581.5	599.3	607.0
40°	532.8	542.1	557.5	578.4	586.9
42.5°	506.5	515.0	534.3	556.8	566.0
45°	479.4	489.5	509.6	535.1	544.4
47.5°	451.6	461.6	485.6	512.7	521.2
50°	423.8	433.9	460.9	489.5	499.6
52.5°	393.6	406.7	437.7	466.3	476.4
55°	366.6	378.9	410.6	443.1	453.9
57.5°	335.6	350.3	385.1	419.1	430.7
60°	307.0	322.5	359.6	394.3	406.0
62.5°	277.7	294.6	334.0	369.6	382.8
65°	245.9	266.7	308.5	344.8	358.0
67.5°	217.3	239.0	283.1	320.2	331.7
70°	184.8	211.1	255.9	293.1	306.3
72.5°	157.0	183.2	230.4	266.7	279.9
75°	127.6	156.2	203.4	239.7	251.3
77.5°	98.2	129.9	177.1	205.0	208.8
80°	70.4	103.6	146.9	163.2	168.6
82.5°	49.5	79.7	108.3	119.1	122.2
85°	27.0	52.6	68.0	72.7	72.7
87.5°	11.6	22.5	27.0	27.9	28.6
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)