

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: P734056

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734056
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-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

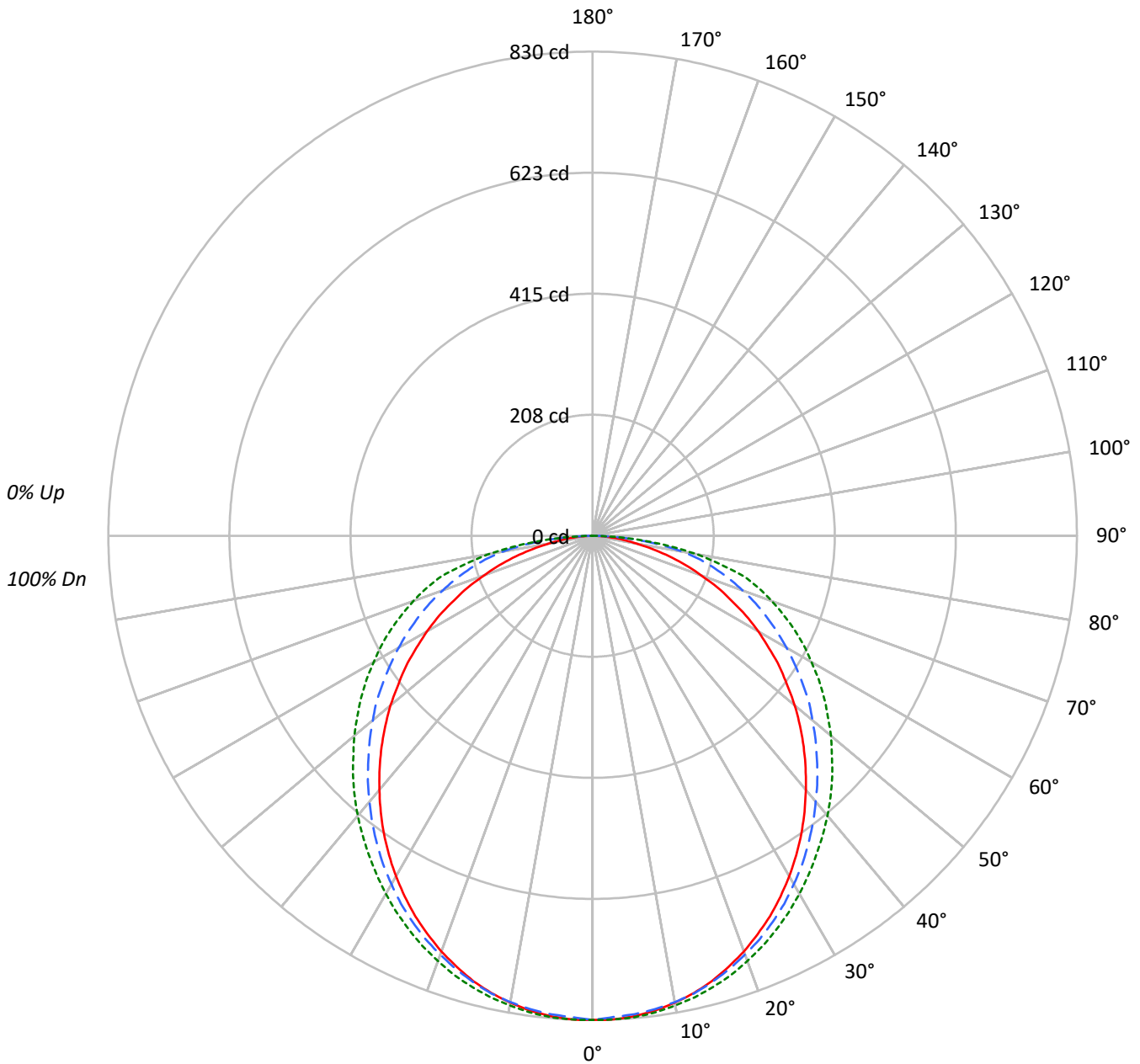
Lumens per Lamp: N/A
Luminaire Lumens: 2472.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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°	1171	1171	1171
5°	1171	1166	1173
10°	1165	1163	1172
15°	1155	1157	1169
20°	1139	1147	1165
25°	1120	1137	1160
30°	1099	1124	1155
35°	1075	1110	1151
40°	1047	1096	1154
45°	1021	1085	1159
50°	993	1080	1170
55°	962	1078	1192
60°	924	1083	1223
65°	876	1099	1275
70°	814	1127	1349
75°	742	1183	1462
80°	610	1274	1462
85°	466	1176	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.2
10°-20°	224.1	9.1
20°-30°	337.2	13.6
30°-40°	404.1	16.3
40°-50°	421.1	17.0
50°-60°	391.8	15.9
60°-70°	322.7	13.1
70°-80°	219.8	8.9
80°-90°	72.6	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°	639.8	25.9
0°-40°	1044.0	42.2
0°-60°	1856.9	75.1
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	827	827	823	828	828	78
15°	790	791	792	800	800	223
25°	719	723	730	742	745	331
35°	624	631	644	662	668	390
45°	512	522	544	571	581	394
55°	391	404	438	473	484	349
65°	262	285	329	368	382	260
75°	136	167	217	256	268	144
85°	29	56	73	78	78	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.0	830.0	830.0	830.0	830.0
2.5°	830.0	830.0	825.8	830.0	830.0
5°	826.6	826.6	823.3	827.5	828.3
7.5°	820.9	821.8	818.5	823.3	824.2
10°	812.6	813.5	811.8	816.8	817.6
12.5°	802.8	803.6	803.6	809.3	810.2
15°	790.3	791.2	792.0	799.5	800.3
17.5°	774.7	777.2	778.8	787.9	789.5
20°	758.2	760.7	764.0	773.8	775.5
22.5°	739.2	742.5	748.3	759.0	761.5
25°	719.4	722.7	730.2	742.5	745.0
27.5°	697.2	702.1	711.2	724.4	727.7
30°	674.1	679.0	689.7	703.7	708.7
32.5°	649.3	655.9	668.2	683.9	688.9
35°	623.7	631.1	644.4	661.7	668.2
37.5°	596.5	604.8	620.4	639.4	647.6
40°	568.5	578.3	594.8	617.1	626.2
42.5°	540.3	549.5	570.1	594.0	603.9
45°	511.5	522.2	543.7	570.9	580.8
47.5°	481.8	492.5	518.1	547.0	556.1
50°	452.1	462.9	491.7	522.2	533.0
52.5°	419.9	433.9	467.0	497.5	508.2
55°	391.1	404.2	438.1	472.7	484.3
57.5°	358.1	373.7	410.9	447.2	459.5
60°	327.5	344.1	383.6	420.7	433.1
62.5°	296.2	314.3	356.4	394.4	408.4
65°	262.3	284.6	329.1	367.9	381.9
67.5°	231.8	255.0	302.0	341.6	353.9
70°	197.2	225.2	273.1	312.7	326.8
72.5°	167.5	195.5	245.8	284.6	298.6
75°	136.1	166.7	217.0	255.8	268.1
77.5°	104.8	138.6	188.9	218.7	222.7
80°	75.1	110.6	156.7	174.1	179.9
82.5°	52.8	85.0	115.5	127.1	130.4
85°	28.8	56.1	72.6	77.6	77.6
87.5°	12.3	24.0	28.8	29.7	30.5
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)