

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: P734151

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-SQR-B2750-W2D-CP250-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

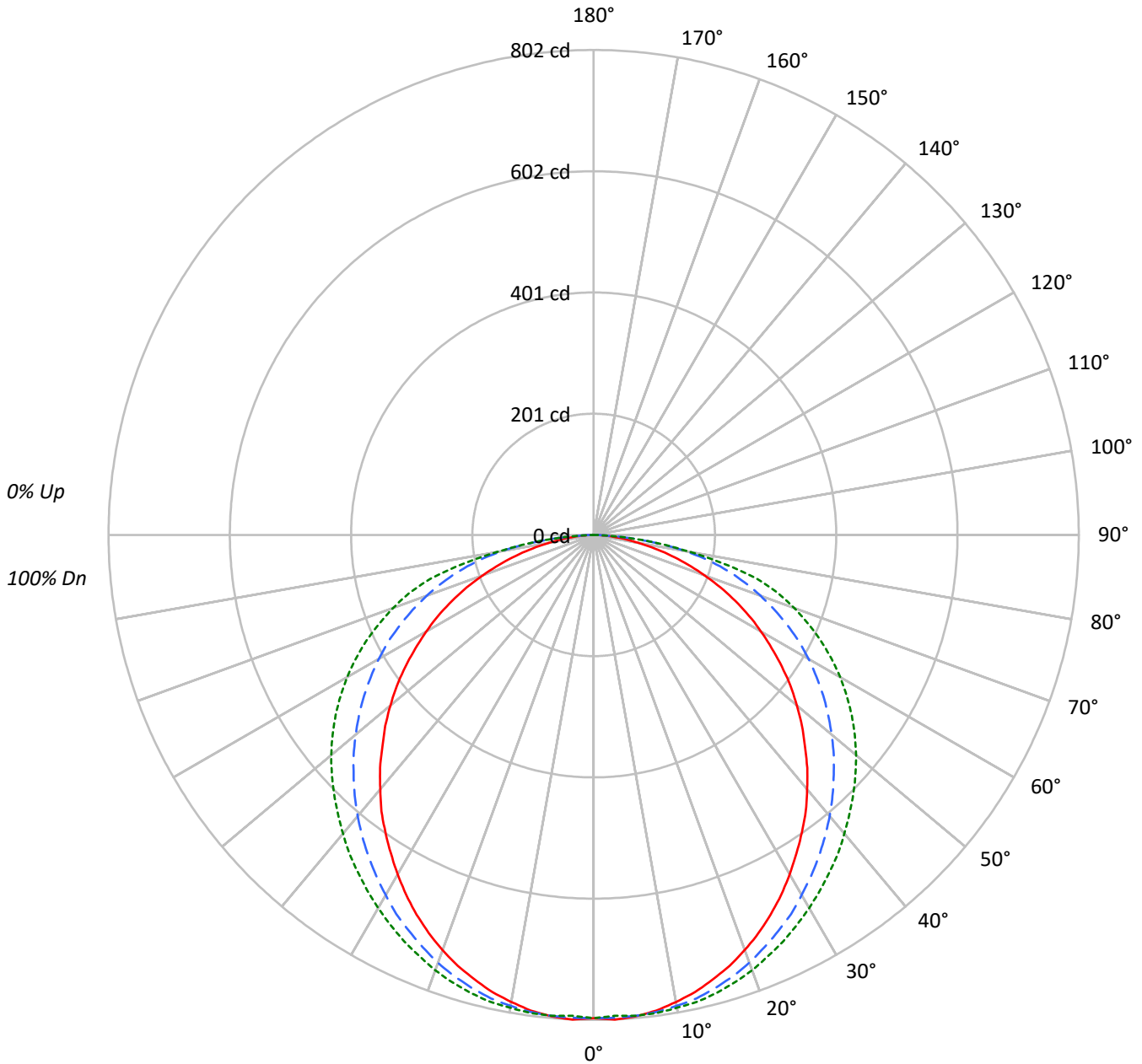
Lumens per Lamp: N/A
Luminaire Lumens: 2500.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1128	1128	1128
5°	1132	1131	1131
10°	1124	1133	1138
15°	1112	1134	1146
20°	1097	1131	1151
25°	1079	1125	1155
30°	1056	1121	1161
35°	1034	1118	1172
40°	1011	1118	1188
45°	985	1120	1211
50°	963	1127	1244
55°	935	1140	1282
60°	902	1158	1328
65°	863	1180	1384
70°	801	1209	1455
75°	725	1251	1522
80°	610	1255	1308
85°	468	949	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.0
10°-20°	218.2	8.7
20°-30°	331.5	13.3
30°-40°	403.2	16.1
40°-50°	429.3	17.2
50°-60°	408.9	16.4
60°-70°	341.9	13.7
70°-80°	228.0	9.1
80°-90°	63.1	2.5
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°	625.6	25.0
0°-40°	1028.8	41.2
0°-60°	1867.0	74.7
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	799	794	798	798	798	76
15°	761	763	776	782	784	215
25°	693	702	722	735	741	319
35°	600	618	649	670	680	376
45°	494	520	561	593	607	382
55°	380	413	463	504	521	339
65°	258	296	353	397	414	255
75°	133	175	230	268	279	141
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	802.4	796.6	799.1	799.1	795.9
5°	799.1	794.1	798.3	798.3	798.3
7.5°	793.4	789.2	795.9	797.5	797.5
10°	784.3	782.7	790.9	793.4	794.1
12.5°	774.4	773.5	785.1	788.3	790.9
15°	761.1	762.8	776.0	781.8	784.3
17.5°	747.2	750.4	765.3	773.5	776.0
20°	730.6	735.6	752.9	761.1	766.1
22.5°	712.5	719.9	738.0	747.9	753.7
25°	692.6	701.7	722.4	734.7	741.4
27.5°	671.2	682.8	706.7	720.7	727.3
30°	648.0	661.2	687.7	704.2	712.5
32.5°	624.1	639.8	668.7	686.9	696.7
35°	600.2	617.5	648.9	670.3	680.2
37.5°	576.2	593.5	628.3	651.3	663.8
40°	549.0	569.6	606.8	632.4	644.8
42.5°	522.6	544.8	584.5	612.5	625.8
45°	493.6	520.1	561.3	592.8	606.8
47.5°	467.2	493.6	538.3	571.3	587.0
50°	438.4	466.4	513.5	549.8	566.4
52.5°	410.3	439.2	488.7	527.5	544.1
55°	379.8	412.7	463.2	503.6	520.9
57.5°	349.2	384.7	436.7	478.8	496.2
60°	319.5	355.8	410.3	452.4	470.6
62.5°	289.8	326.0	383.0	425.9	443.3
65°	258.3	296.3	353.3	397.1	414.5
67.5°	227.0	266.6	323.6	367.4	383.9
70°	194.0	236.1	293.1	336.0	352.5
72.5°	163.5	205.6	261.7	303.8	319.5
75°	132.9	175.0	229.5	268.3	279.1
77.5°	103.2	145.3	194.0	219.6	222.1
80°	75.1	114.8	154.4	161.8	160.9
82.5°	50.3	85.8	106.5	107.3	109.8
85°	28.9	53.6	58.6	57.8	58.6
87.5°	11.6	19.0	16.5	12.3	12.3
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)