

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: P734145

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734145
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-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

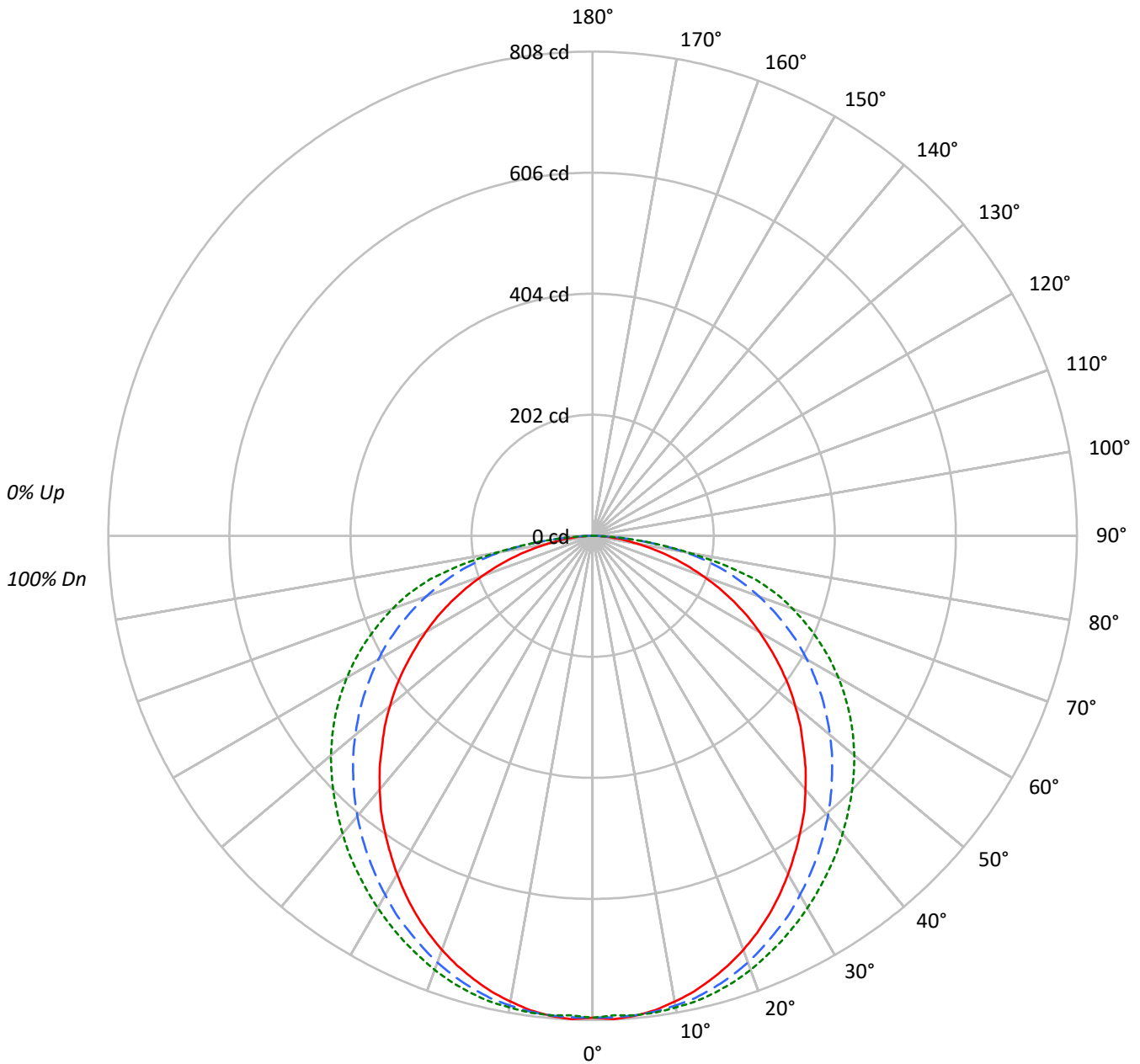
Lumens per Lamp: N/A
Luminaire Lumens: 2516.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734145

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA125-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P734145

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA125-5000K

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°	1135	1135	1135
5°	1139	1138	1138
10°	1131	1141	1145
15°	1119	1141	1153
20°	1104	1138	1158
25°	1086	1132	1162
30°	1063	1128	1169
35°	1041	1125	1180
40°	1018	1125	1196
45°	992	1128	1219
50°	969	1135	1252
55°	940	1147	1290
60°	907	1165	1337
65°	868	1188	1393
70°	805	1217	1464
75°	730	1260	1531
80°	614	1263	1317
85°	470	955	955



TEST NUMBER: P734145

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA125-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.0
10°-20°	219.6	8.7
20°-30°	333.6	13.3
30°-40°	405.8	16.1
40°-50°	432.0	17.2
50°-60°	411.5	16.4
60°-70°	344.1	13.7
70°-80°	229.4	9.1
80°-90°	63.5	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°	629.6	25.0
0°-40°	1035.4	41.2
0°-60°	1879.0	74.7
0°-90°	2516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	804	799	803	803	803	76
15°	766	768	781	787	789	216
25°	697	706	727	739	746	321
35°	604	622	653	675	685	378
45°	497	524	565	597	611	384
55°	382	415	466	507	524	342
65°	260	298	356	400	417	257
75°	134	176	231	270	281	142
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



TEST NUMBER: P734145

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA125-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	807.5	801.7	804.2	804.2	801.0
5°	804.2	799.2	803.4	803.4	803.4
7.5°	798.5	794.3	801.0	802.6	802.6
10°	789.3	787.7	796.0	798.5	799.2
12.5°	779.4	778.5	790.2	793.4	796.0
15°	766.0	767.7	781.0	786.8	789.3
17.5°	751.9	755.2	770.2	778.5	781.0
20°	735.3	740.3	757.8	766.0	771.0
22.5°	717.1	724.5	742.8	752.7	758.5
25°	697.1	706.2	727.0	739.4	746.1
27.5°	675.5	687.1	711.2	725.3	732.0
30°	652.2	665.4	692.1	708.7	717.1
32.5°	628.1	643.9	673.0	691.3	701.2
35°	604.0	621.5	653.0	674.6	684.6
37.5°	579.9	597.3	632.3	655.5	668.0
40°	552.5	573.2	610.7	636.4	648.9
42.5°	525.9	548.3	588.2	616.4	629.8
45°	496.8	523.5	564.9	596.6	610.7
47.5°	470.2	496.8	541.7	575.0	590.7
50°	441.2	469.4	516.8	553.4	570.0
52.5°	412.9	442.0	491.8	530.9	547.5
55°	382.2	415.4	466.1	506.8	524.2
57.5°	351.5	387.2	439.5	481.9	499.4
60°	321.5	358.0	412.9	455.3	473.6
62.5°	291.6	328.1	385.5	428.7	446.1
65°	260.0	298.2	355.6	399.6	417.1
67.5°	228.5	268.3	325.7	369.7	386.3
70°	195.2	237.7	295.0	338.2	354.8
72.5°	164.6	206.9	263.3	305.8	321.5
75°	133.8	176.1	231.0	270.0	280.8
77.5°	103.9	146.2	195.2	221.0	223.5
80°	75.6	115.5	155.4	162.8	162.0
82.5°	50.6	86.4	107.2	108.0	110.5
85°	29.0	54.0	59.0	58.2	59.0
87.5°	11.7	19.1	16.6	12.4	12.4
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)