

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: P734139

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734139
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-CA08-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

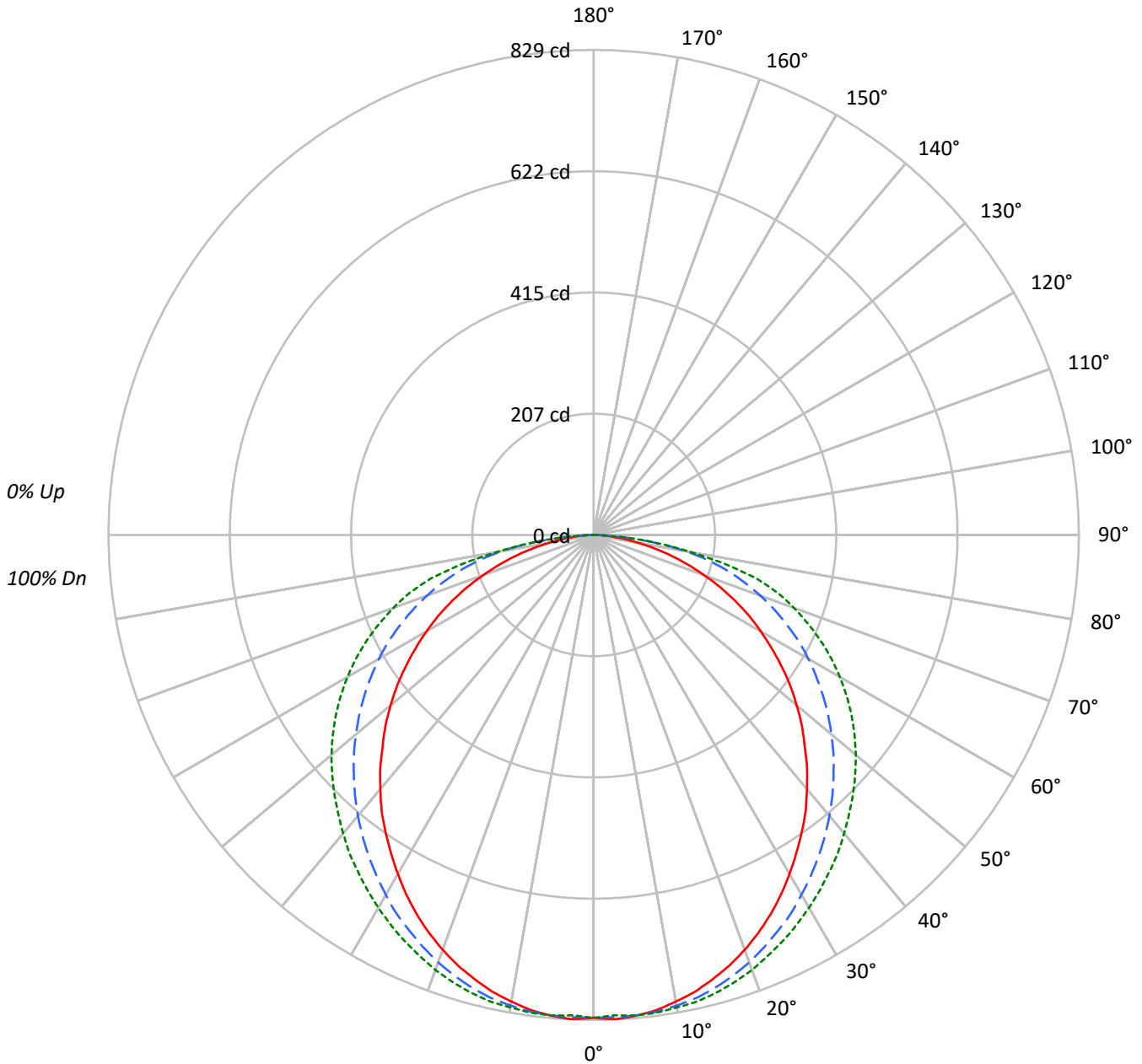
Lumens per Lamp: N/A
Luminaire Lumens: 2582.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734139

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA08-4000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1165	1165	1165
5°	1169	1168	1168
10°	1161	1171	1175
15°	1149	1171	1184
20°	1133	1168	1188
25°	1114	1162	1192
30°	1091	1158	1199
35°	1068	1155	1210
40°	1045	1155	1227
45°	1018	1157	1251
50°	994	1164	1284
55°	965	1177	1324
60°	931	1196	1372
65°	891	1219	1429
70°	827	1249	1502
75°	749	1292	1572
80°	631	1296	1351
85°	483	980	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.0
10°-20°	225.4	8.7
20°-30°	342.4	13.3
30°-40°	416.5	16.1
40°-50°	443.4	17.2
50°-60°	422.3	16.4
60°-70°	353.1	13.7
70°-80°	235.5	9.1
80°-90°	65.1	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°	646.1	25.0
0°-40°	1062.6	41.2
0°-60°	1928.3	74.7
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	825	820	824	824	824	78
15°	786	788	802	807	810	222
25°	715	725	746	759	766	329
35°	620	638	670	692	702	388
45°	510	537	580	612	627	394
55°	392	426	478	520	538	351
65°	267	306	365	410	428	264
75°	137	181	237	277	288	145
85°	30	55	60	60	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.3	825.3	825.3	825.3	825.3
2.5°	828.7	822.7	825.3	825.3	822.0
5°	825.3	820.2	824.5	824.5	824.5
7.5°	819.4	815.1	822.0	823.6	823.6
10°	810.0	808.3	816.9	819.4	820.2
12.5°	799.8	798.9	810.9	814.2	816.9
15°	786.1	787.8	801.5	807.4	810.0
17.5°	771.7	775.0	790.4	798.9	801.5
20°	754.6	759.7	777.6	786.1	791.3
22.5°	735.9	743.5	762.2	772.4	778.4
25°	715.4	724.7	746.1	758.8	765.7
27.5°	693.2	705.2	729.9	744.3	751.2
30°	669.3	682.9	710.3	727.3	735.9
32.5°	644.6	660.7	690.7	709.4	719.6
35°	619.9	637.8	670.2	692.3	702.5
37.5°	595.1	613.0	648.9	672.7	685.6
40°	567.0	588.3	626.7	653.1	665.9
42.5°	539.7	562.7	603.7	632.6	646.3
45°	509.8	537.2	579.7	612.2	626.7
47.5°	482.6	509.8	555.9	590.0	606.2
50°	452.8	481.7	530.3	567.9	584.9
52.5°	423.7	453.6	504.7	544.8	561.9
55°	392.3	426.3	478.4	520.1	538.0
57.5°	360.7	397.4	451.0	494.5	512.5
60°	330.0	367.4	423.7	467.3	486.0
62.5°	299.3	336.7	395.6	439.9	457.9
65°	266.8	306.0	364.9	410.1	428.0
67.5°	234.5	275.4	334.2	379.4	396.5
70°	200.3	243.9	302.7	347.0	364.1
72.5°	168.9	212.3	270.3	313.8	330.0
75°	137.3	180.7	237.0	277.1	288.2
77.5°	106.6	150.0	200.3	226.8	229.4
80°	77.6	118.6	159.5	167.1	166.2
82.5°	52.0	88.6	110.0	110.8	113.4
85°	29.8	55.4	60.5	59.7	60.5
87.5°	12.0	19.6	17.1	12.7	12.7
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)