

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: P734156

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734156
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-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

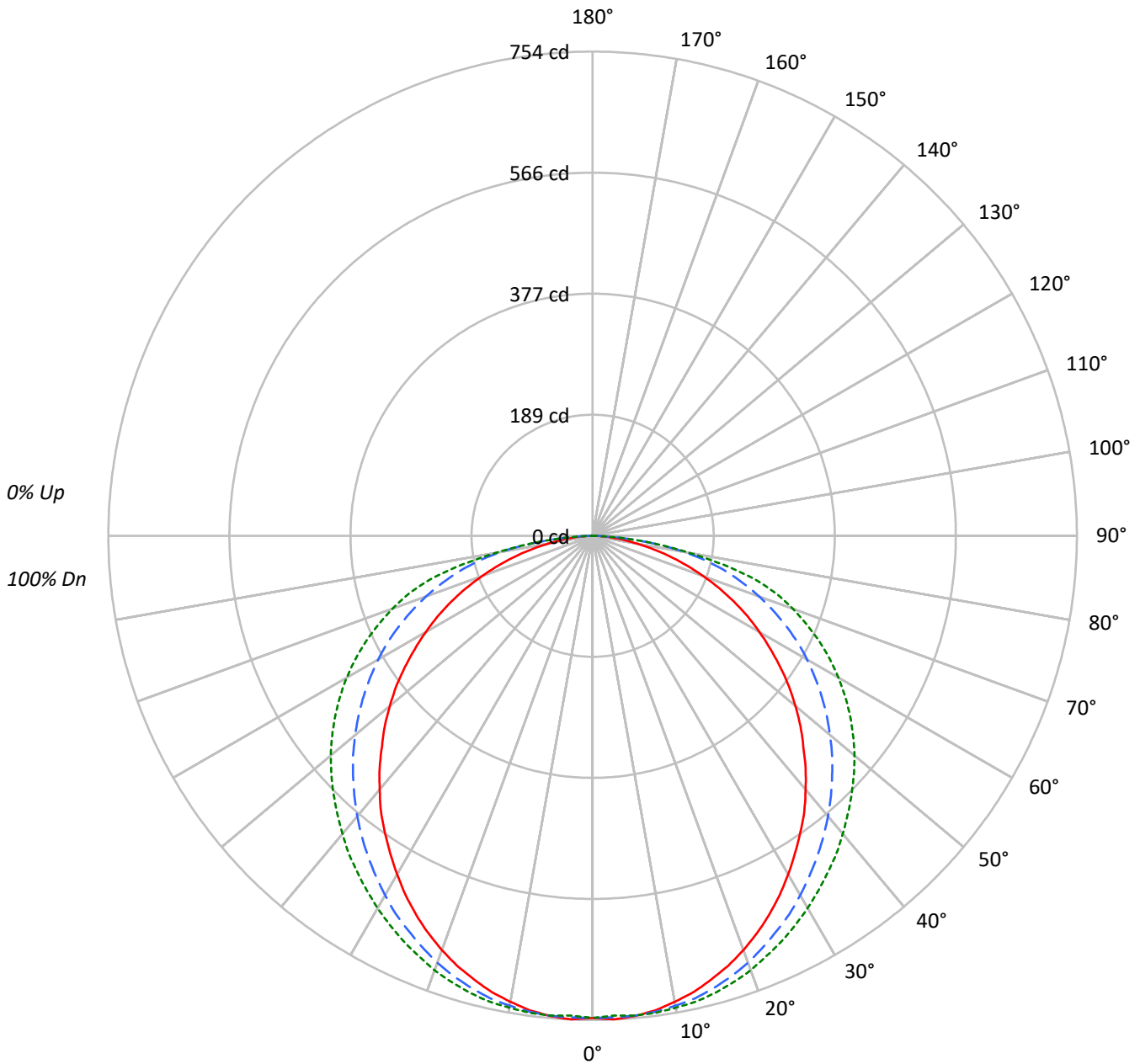
Lumens per Lamp: N/A
Luminaire Lumens: 2349.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734156

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP375-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P734156

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP375-2700K

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°	1060	1060	1060
5°	1064	1063	1063
10°	1056	1065	1069
15°	1045	1065	1077
20°	1031	1063	1081
25°	1013	1057	1085
30°	992	1053	1091
35°	972	1050	1101
40°	950	1051	1116
45°	926	1053	1138
50°	904	1059	1169
55°	878	1071	1204
60°	847	1088	1248
65°	811	1109	1300
70°	752	1136	1367
75°	681	1176	1430
80°	574	1179	1229
85°	439	891	891



TEST NUMBER: P734156

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP375-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.0
10°-20°	205.1	8.7
20°-30°	311.5	13.3
30°-40°	378.9	16.1
40°-50°	403.4	17.2
50°-60°	384.2	16.4
60°-70°	321.3	13.7
70°-80°	214.2	9.1
80°-90°	59.2	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°	587.8	25.0
0°-40°	966.7	41.2
0°-60°	1754.2	74.7
0°-90°	2349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	751	746	750	750	750	71
15°	715	717	729	735	737	202
25°	651	659	679	690	697	300
35°	564	580	610	630	639	353
45°	464	489	527	557	570	359
55°	357	388	435	473	489	319
65°	243	278	332	373	389	240
75°	125	164	216	252	262	132
85°	27	50	55	54	55	33
90°	0	0	0	0	0	



TEST NUMBER: P734156

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP375-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.8	750.8	750.8	750.8	750.8
2.5°	753.9	748.5	750.8	750.8	747.8
5°	750.8	746.2	750.1	750.1	750.1
7.5°	745.5	741.5	747.8	749.3	749.3
10°	736.9	735.4	743.2	745.5	746.2
12.5°	727.6	726.8	737.7	740.7	743.2
15°	715.1	716.7	729.1	734.6	736.9
17.5°	702.0	705.0	719.1	726.8	729.1
20°	686.5	691.1	707.5	715.1	719.9
22.5°	669.5	676.4	693.5	702.7	708.2
25°	650.8	659.3	678.7	690.3	696.6
27.5°	630.7	641.5	664.0	677.1	683.4
30°	608.9	621.3	646.2	661.7	669.5
32.5°	586.4	601.1	628.3	645.4	654.6
35°	563.9	580.2	609.7	629.8	639.1
37.5°	541.4	557.7	590.3	612.0	623.7
40°	515.8	535.2	570.2	594.2	605.9
42.5°	491.0	511.9	549.2	575.5	588.0
45°	463.8	488.7	527.4	557.0	570.2
47.5°	439.0	463.8	505.8	536.8	551.5
50°	411.9	438.2	482.5	516.6	532.2
52.5°	385.5	412.7	459.2	495.7	511.2
55°	356.9	387.8	435.2	473.2	489.4
57.5°	328.1	361.5	410.3	449.9	466.2
60°	300.2	334.3	385.5	425.1	442.1
62.5°	272.3	306.4	359.9	400.2	416.5
65°	242.7	278.4	332.0	373.1	389.4
67.5°	213.3	250.5	304.0	345.2	360.7
70°	182.3	221.9	275.4	315.7	331.3
72.5°	153.6	193.1	245.9	285.5	300.2
75°	124.9	164.4	215.6	252.1	262.2
77.5°	97.0	136.5	182.3	206.4	208.7
80°	70.6	107.9	145.1	152.0	151.2
82.5°	47.3	80.6	100.1	100.8	103.1
85°	27.1	50.4	55.0	54.3	55.0
87.5°	10.9	17.8	15.5	11.6	11.6
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)