

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: P733931

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733931
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: 24FCZ2-30-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

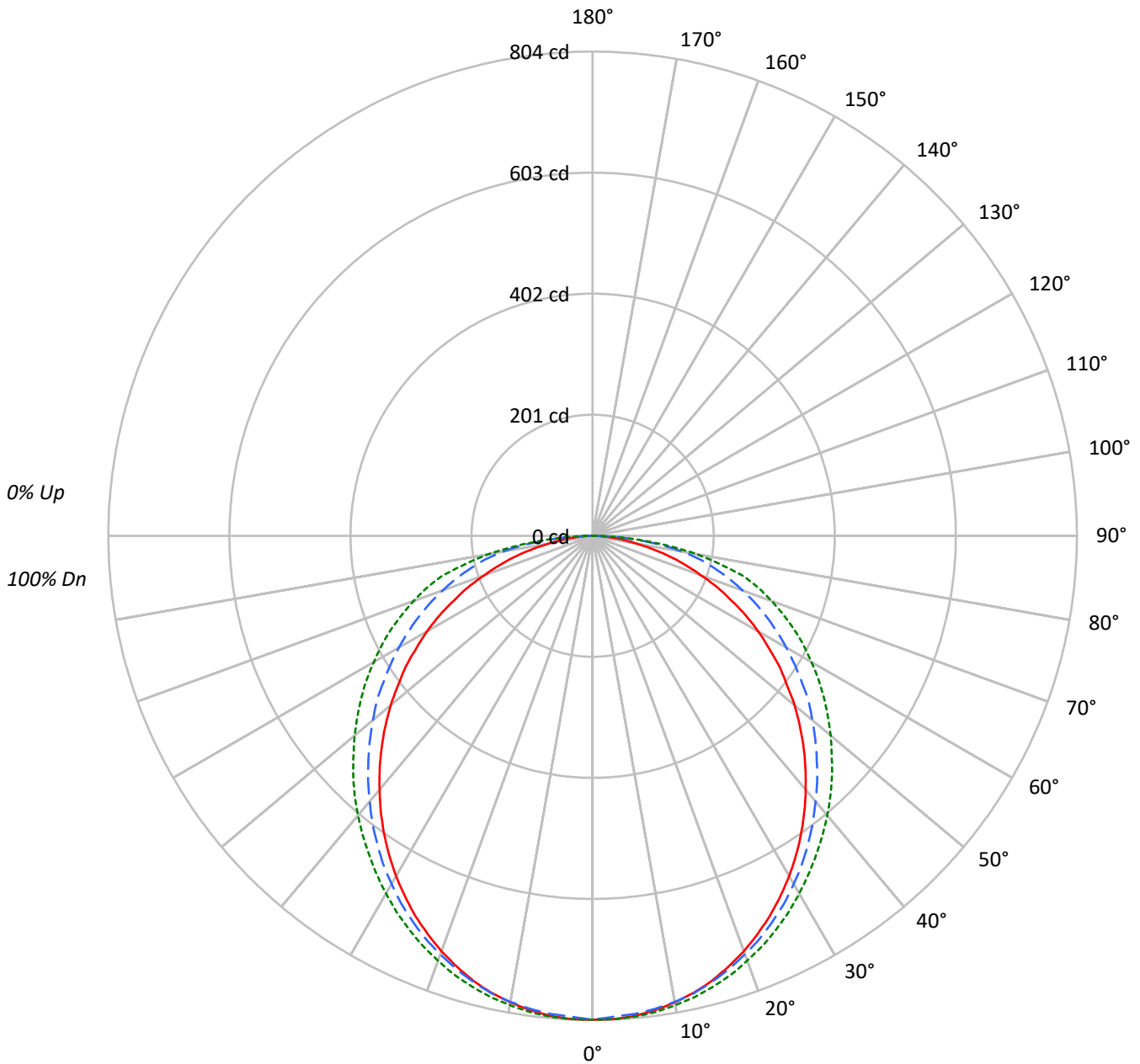
Lumens per Lamp: N/A
Luminaire Lumens: 2393.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	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°	1134	1134	1134
5°	1134	1129	1136
10°	1127	1126	1134
15°	1118	1120	1132
20°	1102	1111	1127
25°	1084	1101	1123
30°	1063	1088	1118
35°	1040	1075	1115
40°	1014	1061	1117
45°	988	1050	1122
50°	961	1045	1133
55°	932	1044	1154
60°	895	1048	1184
65°	848	1064	1235
70°	788	1091	1305
75°	719	1145	1415
80°	591	1233	1415
85°	452	1138	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.2
10°-20°	216.9	9.1
20°-30°	326.5	13.6
30°-40°	391.2	16.3
40°-50°	407.7	17.0
50°-60°	379.3	15.9
60°-70°	312.4	13.1
70°-80°	212.8	8.9
80°-90°	70.3	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°	619.4	25.9
0°-40°	1010.6	42.2
0°-60°	1797.6	75.1
0°-90°	2393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	800	797	801	802	76
15°	765	766	767	774	775	216
25°	696	700	707	719	721	321
35°	604	611	624	640	647	377
45°	495	506	526	553	562	382
55°	379	391	424	458	469	337
65°	254	276	319	356	370	252
75°	132	161	210	248	260	139
85°	28	54	70	75	75	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.5	803.5	803.5	803.5	803.5
2.5°	803.5	803.5	799.4	803.5	803.5
5°	800.2	800.2	797.0	801.1	801.8
7.5°	794.6	795.5	792.3	797.0	797.9
10°	786.6	787.5	785.9	790.7	791.4
12.5°	777.1	777.9	777.9	783.5	784.3
15°	765.1	765.9	766.7	773.9	774.7
17.5°	750.0	752.4	753.9	762.8	764.3
20°	734.0	736.4	739.6	749.1	750.7
22.5°	715.6	718.8	724.4	734.7	737.2
25°	696.4	699.6	706.8	718.8	721.2
27.5°	674.9	679.7	688.4	701.3	704.4
30°	652.5	657.3	667.7	681.2	686.0
32.5°	628.6	634.9	646.9	662.1	666.9
35°	603.7	611.0	623.8	640.5	646.9
37.5°	577.5	585.5	600.6	618.9	626.9
40°	550.3	559.8	575.8	597.4	606.1
42.5°	523.1	531.9	551.9	575.1	584.6
45°	495.2	505.6	526.3	552.6	562.3
47.5°	466.4	476.8	501.5	529.5	538.3
50°	437.7	448.1	476.0	505.6	516.0
52.5°	406.5	420.1	452.0	481.6	492.0
55°	378.6	391.3	424.1	457.6	468.8
57.5°	346.6	361.7	397.7	432.9	444.8
60°	317.1	333.1	371.4	407.3	419.3
62.5°	286.8	304.3	345.0	381.8	395.3
65°	253.9	275.5	318.6	356.2	369.7
67.5°	224.4	246.8	292.3	330.7	342.6
70°	190.9	218.0	264.3	302.7	316.3
72.5°	162.1	189.2	238.0	275.5	289.1
75°	131.8	161.3	210.0	247.6	259.5
77.5°	101.5	134.2	182.9	211.7	215.6
80°	72.7	107.0	151.7	168.6	174.1
82.5°	51.1	82.3	111.9	123.0	126.2
85°	27.9	54.3	70.3	75.1	75.1
87.5°	11.9	23.2	27.9	28.8	29.6
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)