

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: P733969

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CA125-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

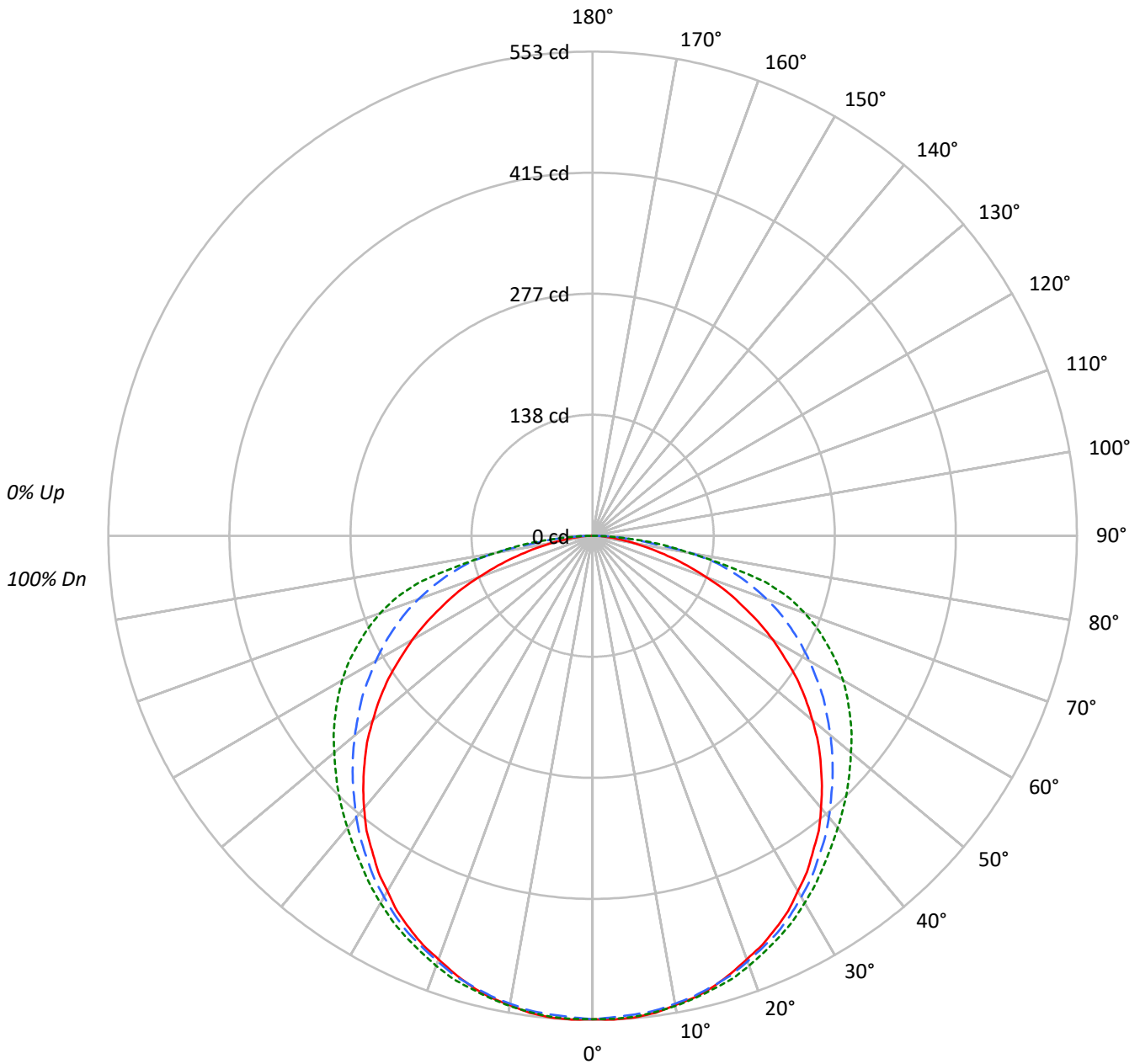
Lumens per Lamp: N/A
Luminaire Lumens: 1756.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P733969

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA125-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P733969

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA125-4000K

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	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	779	779	779
5°	782	778	781
10°	780	778	781
15°	779	778	783
20°	773	777	785
25°	771	778	787
30°	764	776	789
35°	756	774	792
40°	748	773	802
45°	735	774	821
50°	719	778	845
55°	701	791	883
60°	671	806	932
65°	628	835	989
70°	572	873	1064
75°	485	922	1112
80°	383	927	899
85°	282	706	789



TEST NUMBER: P733969

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA125-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	3.0
10°-20°	150.8	8.6
20°-30°	230.5	13.1
30°-40°	281.8	16.0
40°-50°	300.4	17.1
50°-60°	287.2	16.4
60°-70°	243.3	13.9
70°-80°	163.5	9.3
80°-90°	46.1	2.6
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°	433.7	24.7
0°-40°	715.5	40.7
0°-60°	1303.1	74.2
0°-90°	1756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	552	551	549	551	551	52
15°	533	533	532	537	536	150
25°	495	496	500	504	505	228
35°	439	442	449	458	460	275
45°	368	374	388	404	411	284
55°	285	295	321	347	359	254
65°	188	207	250	283	296	187
75°	89	121	169	198	204	95
85°	17	36	44	47	49	22
90°	0	0	0	0	0	



TEST NUMBER: P733969

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CA125-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.2	552.2	552.2	552.2	552.2
2.5°	553.1	553.1	550.4	552.2	552.2
5°	552.2	551.4	548.8	551.4	551.4
7.5°	549.6	548.8	547.0	549.6	548.8
10°	544.3	544.3	542.7	545.3	545.3
12.5°	540.0	539.2	538.2	541.7	540.9
15°	533.1	533.1	532.2	536.6	535.6
17.5°	524.4	525.2	526.1	529.5	530.5
20°	514.7	516.5	517.3	522.6	522.6
22.5°	506.0	507.0	508.6	513.9	513.9
25°	494.8	496.4	499.9	504.3	505.2
27.5°	483.4	484.3	488.7	494.8	495.6
30°	468.6	471.2	476.4	483.4	484.3
32.5°	455.5	458.1	464.2	471.2	472.9
35°	439.0	442.5	449.4	458.1	459.9
37.5°	424.2	426.8	435.5	445.1	447.7
40°	405.9	411.1	419.8	431.1	435.5
42.5°	387.6	392.8	403.3	418.1	423.4
45°	368.4	374.5	387.6	404.1	411.1
47.5°	349.3	356.2	371.1	390.2	398.0
50°	327.5	336.2	354.5	376.3	385.0
52.5°	306.6	317.1	337.1	361.5	372.8
55°	284.8	295.2	321.4	346.7	358.9
57.5°	260.5	274.3	303.1	331.9	344.9
60°	237.8	250.8	285.7	317.1	330.1
62.5°	213.4	230.8	268.2	301.3	314.4
65°	188.1	207.3	250.0	283.0	296.2
67.5°	165.5	186.4	231.7	264.8	277.9
70°	138.5	164.6	211.6	244.7	257.8
72.5°	113.2	142.0	190.7	223.0	235.1
75°	88.9	121.1	169.0	197.8	203.9
77.5°	66.2	100.2	146.3	158.5	154.2
80°	47.1	80.1	114.1	108.0	110.6
82.5°	30.5	61.0	70.6	80.1	82.8
85°	17.4	35.7	43.6	47.1	48.7
87.5°	7.9	13.0	17.4	17.4	16.6
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)