

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: P734105

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734105
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: 24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

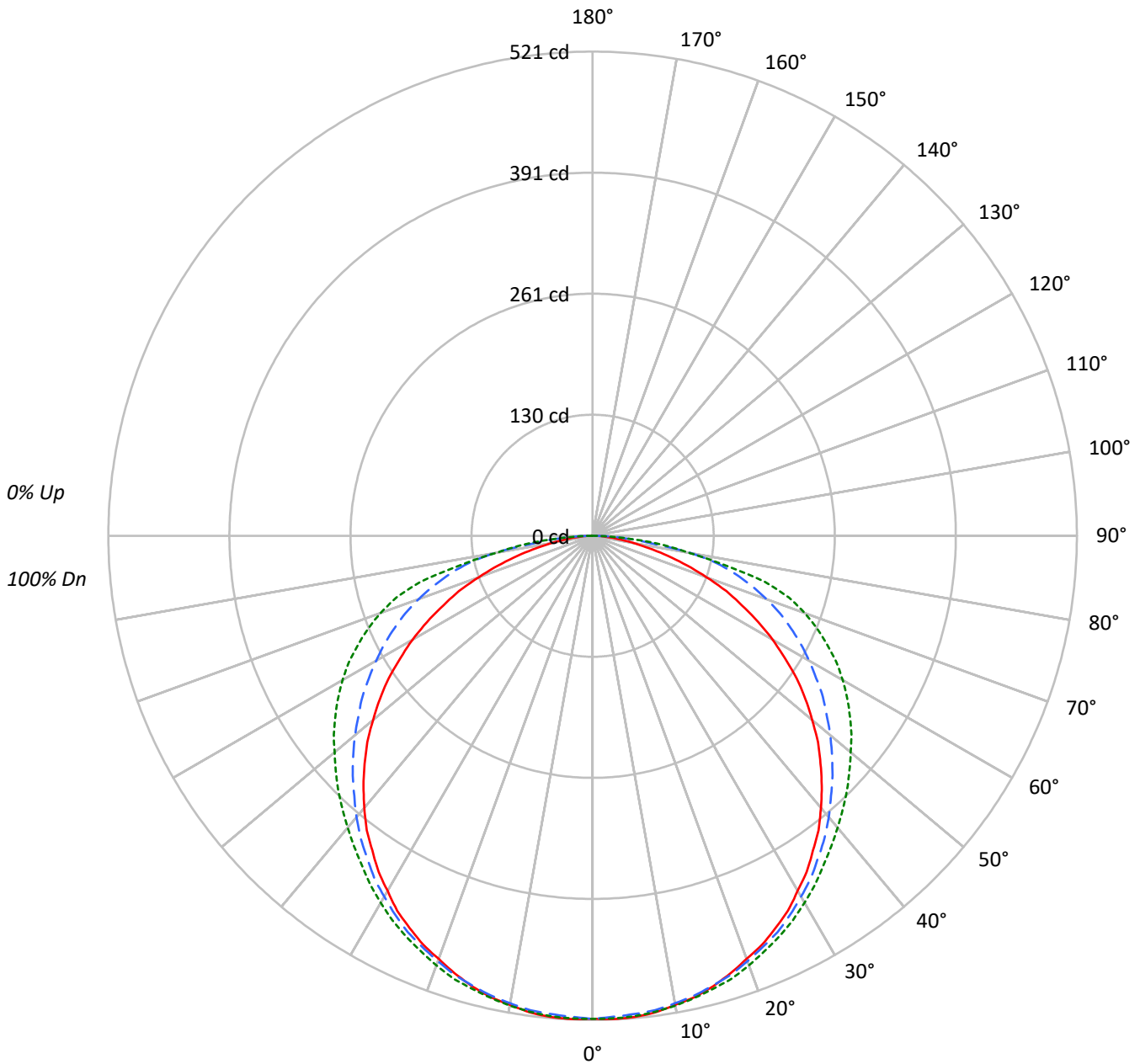
Lumens per Lamp: N/A
Luminaire Lumens: 1653.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): 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: P734105

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P734105

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K

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	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°	734	734	734
5°	736	732	735
10°	734	732	736
15°	733	732	737
20°	728	731	739
25°	725	733	740
30°	719	731	743
35°	712	729	746
40°	704	728	755
45°	692	728	772
50°	677	733	796
55°	660	744	831
60°	632	759	877
65°	591	786	931
70°	538	822	1001
75°	456	868	1046
80°	360	873	846
85°	266	664	743



TEST NUMBER: P734105

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	141.9	8.6
20°-30°	217.0	13.1
30°-40°	265.3	16.0
40°-50°	282.8	17.1
50°-60°	270.4	16.4
60°-70°	229.0	13.9
70°-80°	153.9	9.3
80°-90°	43.4	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°	408.2	24.7
0°-40°	673.5	40.7
0°-60°	1226.6	74.2
0°-90°	1653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	520	519	517	519	519	49
15°	502	502	501	505	504	141
25°	466	467	471	475	476	215
35°	413	416	423	431	433	259
45°	347	352	365	380	387	268
55°	268	278	302	326	338	239
65°	177	195	235	266	279	176
75°	84	114	159	186	192	90
85°	16	34	41	44	46	20
90°	0	0	0	0	0	



TEST NUMBER: P734105

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP250-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.8	519.8	519.8	519.8	519.8
2.5°	520.6	520.6	518.1	519.8	519.8
5°	519.8	519.0	516.6	519.0	519.0
7.5°	517.4	516.6	514.9	517.4	516.6
10°	512.4	512.4	510.8	513.3	513.3
12.5°	508.4	507.6	506.7	509.9	509.1
15°	501.8	501.8	500.9	505.1	504.2
17.5°	493.6	494.4	495.2	498.5	499.4
20°	484.5	486.2	487.0	491.9	491.9
22.5°	476.3	477.2	478.8	483.7	483.7
25°	465.7	467.3	470.6	474.7	475.5
27.5°	455.1	455.9	460.0	465.7	466.5
30°	441.1	443.6	448.4	455.1	455.9
32.5°	428.8	431.2	437.0	443.6	445.2
35°	413.3	416.5	423.0	431.2	432.9
37.5°	399.3	401.8	410.0	419.0	421.5
40°	382.1	387.0	395.2	405.8	410.0
42.5°	364.9	369.8	379.6	393.6	398.5
45°	346.8	352.5	364.9	380.4	387.0
47.5°	328.8	335.3	349.3	367.3	374.7
50°	308.3	316.5	333.7	354.2	362.4
52.5°	288.6	298.5	317.4	340.3	351.0
55°	268.1	277.9	302.5	326.3	337.8
57.5°	245.2	258.2	285.3	312.4	324.7
60°	223.8	236.1	268.9	298.5	310.7
62.5°	200.9	217.3	252.5	283.6	296.0
65°	177.1	195.2	235.3	266.4	278.8
67.5°	155.8	175.5	218.1	249.2	261.6
70°	130.4	154.9	199.2	230.4	242.7
72.5°	106.6	133.7	179.5	209.9	221.4
75°	83.6	114.0	159.1	186.2	191.9
77.5°	62.3	94.3	137.7	149.2	145.1
80°	44.3	75.4	107.4	101.6	104.1
82.5°	28.7	57.4	66.4	75.4	77.9
85°	16.4	33.6	41.0	44.3	45.9
87.5°	7.4	12.3	16.4	16.4	15.6
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)