

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: P734102

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734102
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-CP250-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

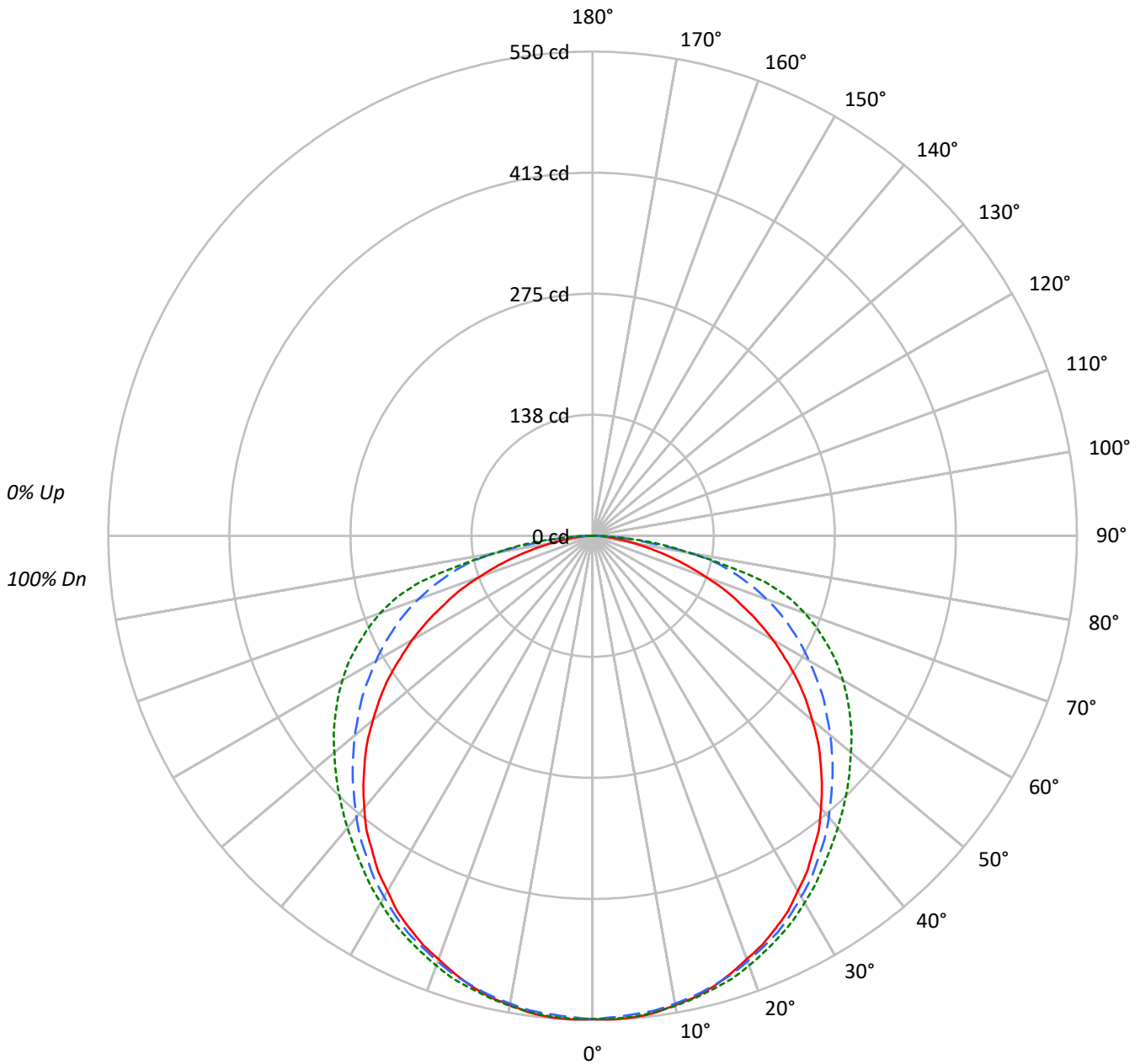
Lumens per Lamp: N/A
Luminaire Lumens: 1746.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (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: P734102

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP250-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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			
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	68	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°	775	775	775
5°	778	773	777
10°	776	773	777
15°	775	773	778
20°	769	773	780
25°	766	774	782
30°	759	772	785
35°	752	770	788
40°	744	769	798
45°	731	769	816
50°	715	774	840
55°	697	786	878
60°	667	802	926
65°	624	830	983
70°	568	868	1058
75°	481	916	1105
80°	380	922	894
85°	280	701	785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.0
10°-20°	149.9	8.6
20°-30°	229.2	13.1
30°-40°	280.2	16.0
40°-50°	298.7	17.1
50°-60°	285.6	16.4
60°-70°	241.9	13.9
70°-80°	162.6	9.3
80°-90°	45.9	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°	431.2	24.7
0°-40°	711.4	40.7
0°-60°	1295.7	74.2
0°-90°	1746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	549	548	546	548	548	52
15°	530	530	529	534	533	149
25°	492	494	497	502	502	227
35°	436	440	447	456	457	273
45°	366	372	385	402	409	283
55°	283	294	320	345	357	252
65°	187	206	248	281	294	186
75°	88	120	168	197	203	95
85°	17	36	43	47	48	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.1	549.1	549.1	549.1	549.1
2.5°	549.9	549.9	547.3	549.1	549.1
5°	549.1	548.2	545.6	548.2	548.2
7.5°	546.5	545.6	543.9	546.5	545.6
10°	541.2	541.2	539.6	542.2	542.2
12.5°	537.0	536.1	535.2	538.6	537.8
15°	530.1	530.1	529.1	533.5	532.6
17.5°	521.4	522.2	523.1	526.5	527.5
20°	511.8	513.6	514.4	519.6	519.6
22.5°	503.1	504.1	505.7	511.0	511.0
25°	492.0	493.6	497.1	501.5	502.3
27.5°	480.7	481.5	485.9	492.0	492.8
30°	465.9	468.6	473.7	480.7	481.5
32.5°	452.9	455.5	461.6	468.6	470.2
35°	436.5	439.9	446.8	455.5	457.3
37.5°	421.8	424.4	433.1	442.6	445.2
40°	403.6	408.7	417.4	428.7	433.1
42.5°	385.4	390.6	401.0	415.7	420.9
45°	366.3	372.4	385.4	401.8	408.7
47.5°	347.3	354.2	368.9	387.9	395.8
50°	325.6	334.3	352.4	374.2	382.8
52.5°	304.8	315.3	335.2	359.4	370.7
55°	283.2	293.5	319.5	344.7	356.8
57.5°	259.0	272.8	301.4	330.0	342.9
60°	236.4	249.4	284.0	315.3	328.2
62.5°	212.2	229.5	266.7	299.6	312.7
65°	187.0	206.1	248.5	281.4	294.5
67.5°	164.6	185.4	230.4	263.3	276.3
70°	137.7	163.6	210.4	243.3	256.4
72.5°	112.6	141.2	189.6	221.7	233.8
75°	88.3	120.4	168.0	196.6	202.7
77.5°	65.8	99.6	145.5	157.6	153.3
80°	46.8	79.7	113.4	107.4	110.0
82.5°	30.3	60.7	70.2	79.7	82.3
85°	17.3	35.5	43.3	46.8	48.5
87.5°	7.8	12.9	17.3	17.3	16.5
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)