

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: P734109

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734109
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-CP375-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

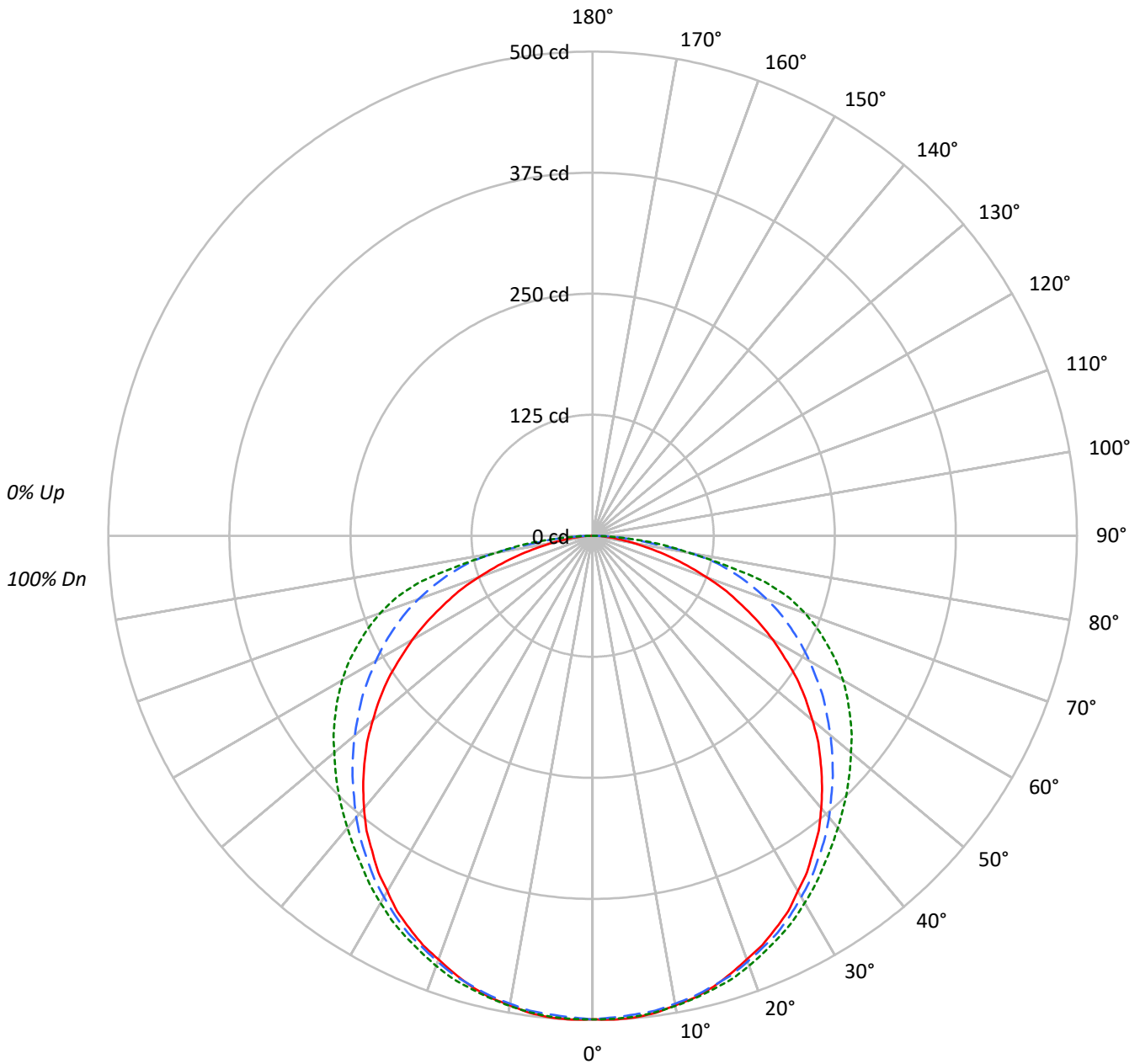
Lumens per Lamp: N/A
Luminaire Lumens: 1588.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	705	705	705
5°	708	703	706
10°	706	703	707
15°	704	703	708
20°	699	703	710
25°	697	704	711
30°	691	702	714
35°	684	700	717
40°	676	699	726
45°	665	700	742
50°	650	704	765
55°	634	715	798
60°	607	729	843
65°	568	755	894
70°	517	790	962
75°	438	833	1005
80°	345	838	813
85°	256	638	714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.0
10°-20°	136.3	8.6
20°-30°	208.5	13.1
30°-40°	254.9	16.0
40°-50°	271.6	17.1
50°-60°	259.7	16.4
60°-70°	220.0	13.9
70°-80°	147.9	9.3
80°-90°	41.7	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°	392.2	24.7
0°-40°	647.1	40.7
0°-60°	1178.4	74.2
0°-90°	1588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	499	499	496	499	499	47
15°	482	482	481	485	484	136
25°	447	449	452	456	457	206
35°	397	400	406	414	416	249
45°	333	339	351	366	372	257
55°	258	267	291	314	324	229
65°	170	188	226	256	268	169
75°	80	110	153	179	184	86
85°	16	32	39	42	44	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.4	499.4	499.4	499.4	499.4
2.5°	500.1	500.1	497.8	499.4	499.4
5°	499.4	498.6	496.3	498.6	498.6
7.5°	497.0	496.3	494.6	497.0	496.3
10°	492.3	492.3	490.7	493.1	493.1
12.5°	488.4	487.6	486.8	489.9	489.1
15°	482.1	482.1	481.2	485.2	484.4
17.5°	474.2	475.0	475.7	478.9	479.7
20°	465.5	467.1	467.9	472.6	472.6
22.5°	457.6	458.5	460.0	464.7	464.7
25°	447.4	449.0	452.1	456.1	456.8
27.5°	437.2	437.9	441.9	447.4	448.2
30°	423.8	426.2	430.8	437.2	437.9
32.5°	411.9	414.3	419.8	426.2	427.7
35°	397.0	400.1	406.4	414.3	415.9
37.5°	383.6	386.0	393.9	402.5	404.9
40°	367.1	371.7	379.6	389.9	393.9
42.5°	350.6	355.2	364.7	378.1	382.8
45°	333.2	338.7	350.6	365.5	371.7
47.5°	315.9	322.2	335.6	352.8	360.0
50°	296.1	304.0	320.5	340.3	348.2
52.5°	277.2	286.7	304.9	326.9	337.2
55°	257.6	267.0	290.6	313.5	324.5
57.5°	235.5	248.1	274.1	300.1	311.9
60°	215.0	226.8	258.3	286.7	298.5
62.5°	193.0	208.8	242.6	272.5	284.4
65°	170.1	187.5	226.0	256.0	267.8
67.5°	149.7	168.6	209.5	239.4	251.3
70°	125.3	148.8	191.4	221.3	233.2
72.5°	102.4	128.4	172.5	201.6	212.7
75°	80.3	109.5	152.8	178.8	184.3
77.5°	59.8	90.6	132.3	143.3	139.4
80°	42.5	72.5	103.1	97.6	100.0
82.5°	27.5	55.2	63.8	72.5	74.8
85°	15.8	32.3	39.4	42.5	44.1
87.5°	7.1	11.8	15.8	15.8	15.0
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)