

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: P734110

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734110
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-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

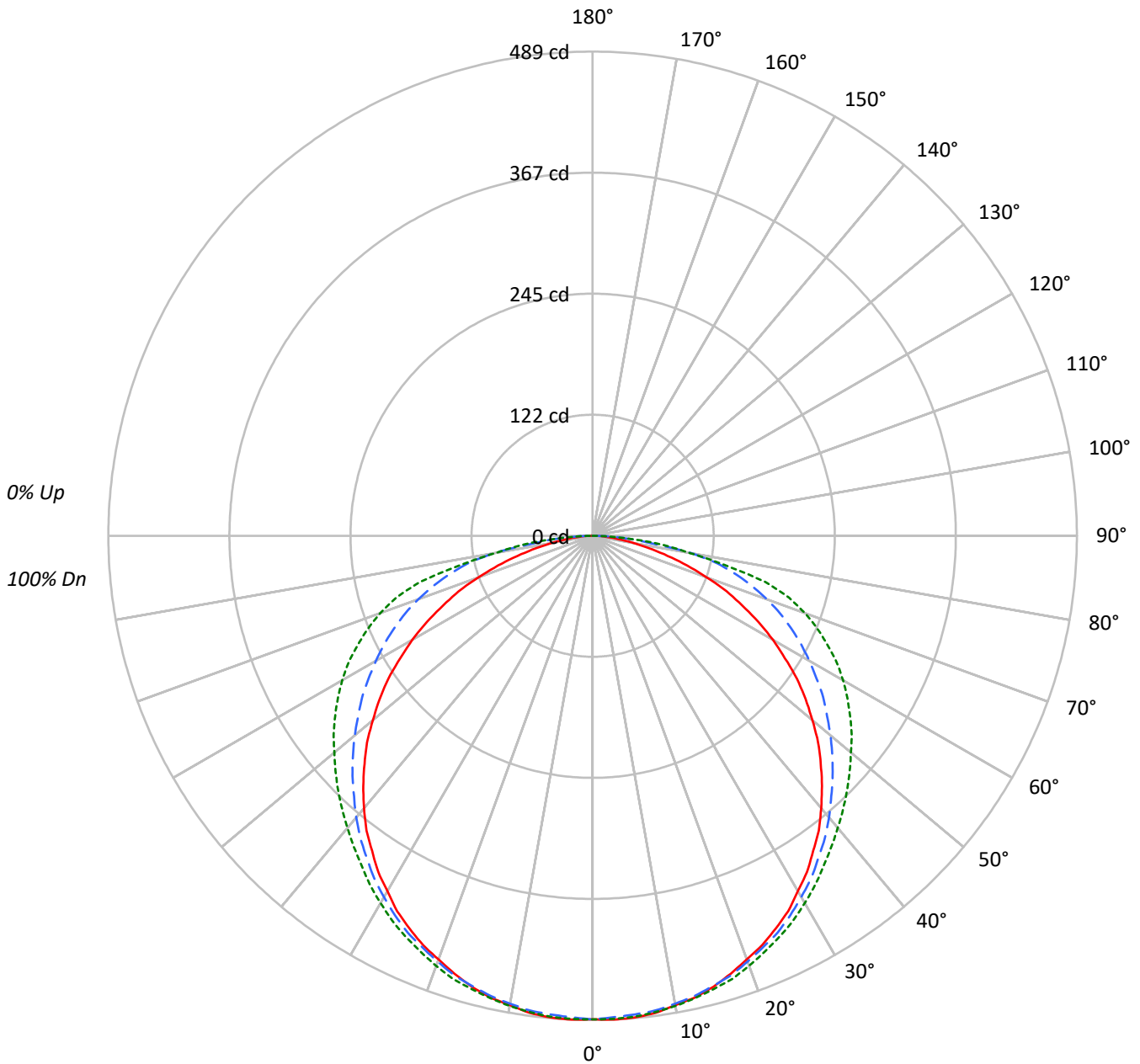
Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734110

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP375-5000K

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	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°	689	689	689
5°	692	688	691
10°	690	688	691
15°	689	688	692
20°	684	687	694
25°	681	688	696
30°	675	687	698
35°	669	685	701
40°	661	684	710
45°	650	684	726
50°	636	688	748
55°	620	699	781
60°	594	713	824
65°	556	738	875
70°	505	772	941
75°	429	815	983
80°	338	820	795
85°	249	623	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.0
10°-20°	133.3	8.6
20°-30°	203.9	13.1
30°-40°	249.3	16.0
40°-50°	265.7	17.1
50°-60°	254.0	16.4
60°-70°	215.2	13.9
70°-80°	144.6	9.3
80°-90°	40.8	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°	383.5	24.7
0°-40°	632.8	40.7
0°-60°	1152.4	74.2
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	488	488	485	488	488	46
15°	472	472	471	474	474	133
25°	438	439	442	446	447	202
35°	388	391	397	405	407	243
45°	326	331	343	357	364	251
55°	252	261	284	307	317	224
65°	166	183	221	250	262	165
75°	79	107	149	175	180	84
85°	15	32	38	42	43	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.4	488.4	488.4	488.4	488.4
2.5°	489.1	489.1	486.8	488.4	488.4
5°	488.4	487.6	485.3	487.6	487.6
7.5°	486.1	485.3	483.7	486.1	485.3
10°	481.4	481.4	479.9	482.2	482.2
12.5°	477.6	476.9	476.0	479.1	478.3
15°	471.5	471.5	470.6	474.5	473.7
17.5°	463.8	464.5	465.3	468.3	469.2
20°	455.2	456.8	457.5	462.2	462.2
22.5°	447.5	448.3	449.8	454.5	454.5
25°	437.6	439.1	442.1	446.0	446.8
27.5°	427.5	428.3	432.2	437.6	438.3
30°	414.4	416.8	421.3	427.5	428.3
32.5°	402.8	405.2	410.5	416.8	418.3
35°	388.3	391.3	397.4	405.2	406.7
37.5°	375.2	377.5	385.2	393.6	396.0
40°	359.0	363.5	371.3	381.3	385.2
42.5°	342.8	347.4	356.7	369.8	374.4
45°	325.8	331.2	342.8	357.4	363.5
47.5°	308.9	315.1	328.2	345.1	352.0
50°	289.6	297.3	313.5	332.8	340.5
52.5°	271.1	280.4	298.2	319.7	329.7
55°	251.9	261.1	284.2	306.6	317.4
57.5°	230.3	242.6	268.1	293.5	305.0
60°	210.3	221.8	252.6	280.4	291.9
62.5°	188.7	204.2	237.2	266.5	278.1
65°	166.4	183.4	221.1	250.3	261.9
67.5°	146.4	164.9	204.9	234.2	245.8
70°	122.5	145.5	187.2	216.4	228.0
72.5°	100.1	125.6	168.7	197.2	208.0
75°	78.6	107.1	149.4	174.9	180.3
77.5°	58.5	88.6	129.4	140.2	136.4
80°	41.6	70.9	100.9	95.5	97.8
82.5°	26.9	54.0	62.4	70.9	73.2
85°	15.4	31.6	38.5	41.6	43.1
87.5°	7.0	11.5	15.4	15.4	14.7
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)