

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: P733983

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733983
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

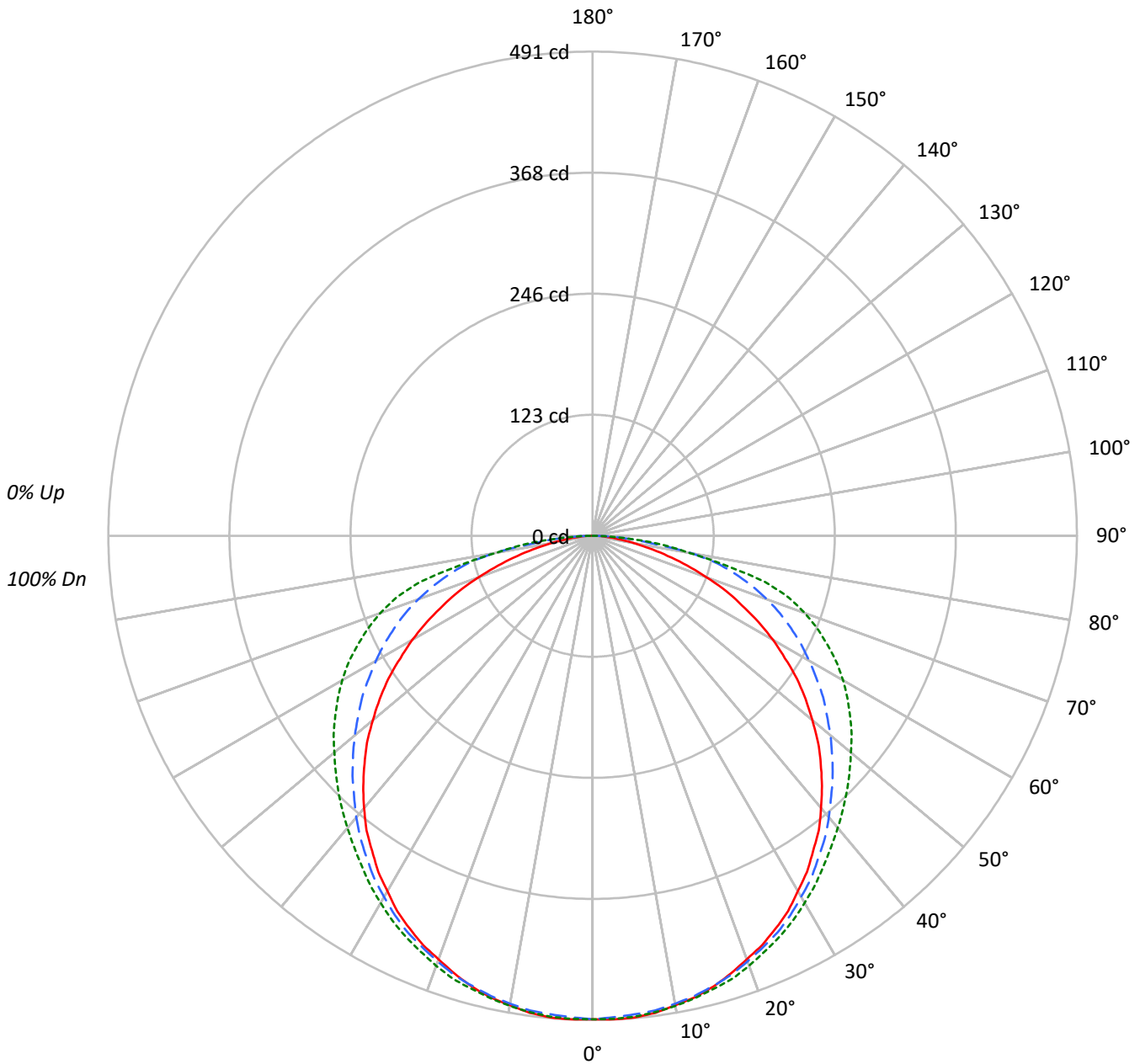
Lumens per Lamp: N/A
Luminaire Lumens: 1559.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P733983

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CP375-3500K

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°	692	692	692
5°	695	690	693
10°	693	690	694
15°	692	690	695
20°	686	690	697
25°	684	691	698
30°	678	689	701
35°	672	687	703
40°	664	687	712
45°	653	687	728
50°	638	691	750
55°	622	702	784
60°	596	716	827
65°	558	741	878
70°	508	775	945
75°	430	818	987
80°	340	823	798
85°	251	627	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.0
10°-20°	133.8	8.6
20°-30°	204.7	13.1
30°-40°	250.2	16.0
40°-50°	266.7	17.1
50°-60°	255.0	16.4
60°-70°	216.0	13.9
70°-80°	145.2	9.3
80°-90°	41.0	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°	385.0	24.7
0°-40°	635.2	40.7
0°-60°	1156.9	74.2
0°-90°	1559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	490	490	487	490	490	47
15°	473	473	472	476	476	133
25°	439	441	444	448	448	202
35°	390	393	399	407	408	244
45°	327	332	344	359	365	252
55°	253	262	285	308	319	225
65°	167	184	222	251	263	166
75°	79	108	150	176	181	84
85°	16	32	39	42	43	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.3	490.3	490.3	490.3	490.3
2.5°	491.0	491.0	488.7	490.3	490.3
5°	490.3	489.5	487.2	489.5	489.5
7.5°	487.9	487.2	485.6	487.9	487.2
10°	483.3	483.3	481.8	484.1	484.1
12.5°	479.4	478.7	477.9	480.9	480.2
15°	473.3	473.3	472.5	476.4	475.5
17.5°	465.6	466.3	467.0	470.1	471.0
20°	457.0	458.6	459.3	464.0	464.0
22.5°	449.2	450.1	451.6	456.2	456.2
25°	439.3	440.8	443.8	447.7	448.5
27.5°	429.2	429.9	433.9	439.3	440.0
30°	416.0	418.4	422.9	429.2	429.9
32.5°	404.4	406.7	412.1	418.4	419.9
35°	389.8	392.8	399.0	406.7	408.3
37.5°	376.6	378.9	386.7	395.2	397.5
40°	360.4	364.9	372.7	382.8	386.7
42.5°	344.2	348.7	358.0	371.2	375.9
45°	327.1	332.5	344.2	358.8	364.9
47.5°	310.1	316.3	329.4	346.4	353.4
50°	290.7	298.5	314.7	334.1	341.8
52.5°	272.2	281.5	299.3	320.9	331.0
55°	252.9	262.1	285.3	307.8	318.6
57.5°	231.2	243.5	269.1	294.6	306.2
60°	211.1	222.7	253.6	281.5	293.1
62.5°	189.5	204.9	238.1	267.5	279.2
65°	167.0	184.1	221.9	251.3	262.9
67.5°	146.9	165.5	205.7	235.1	246.7
70°	123.0	146.1	187.9	217.3	228.9
72.5°	100.5	126.1	169.3	198.0	208.8
75°	78.9	107.5	150.0	175.6	181.0
77.5°	58.7	89.0	129.9	140.7	136.9
80°	41.8	71.1	101.3	95.9	98.2
82.5°	27.0	54.2	62.7	71.1	73.5
85°	15.5	31.7	38.7	41.8	43.3
87.5°	7.0	11.6	15.5	15.5	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)