

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: P733973

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733973
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-CP187-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

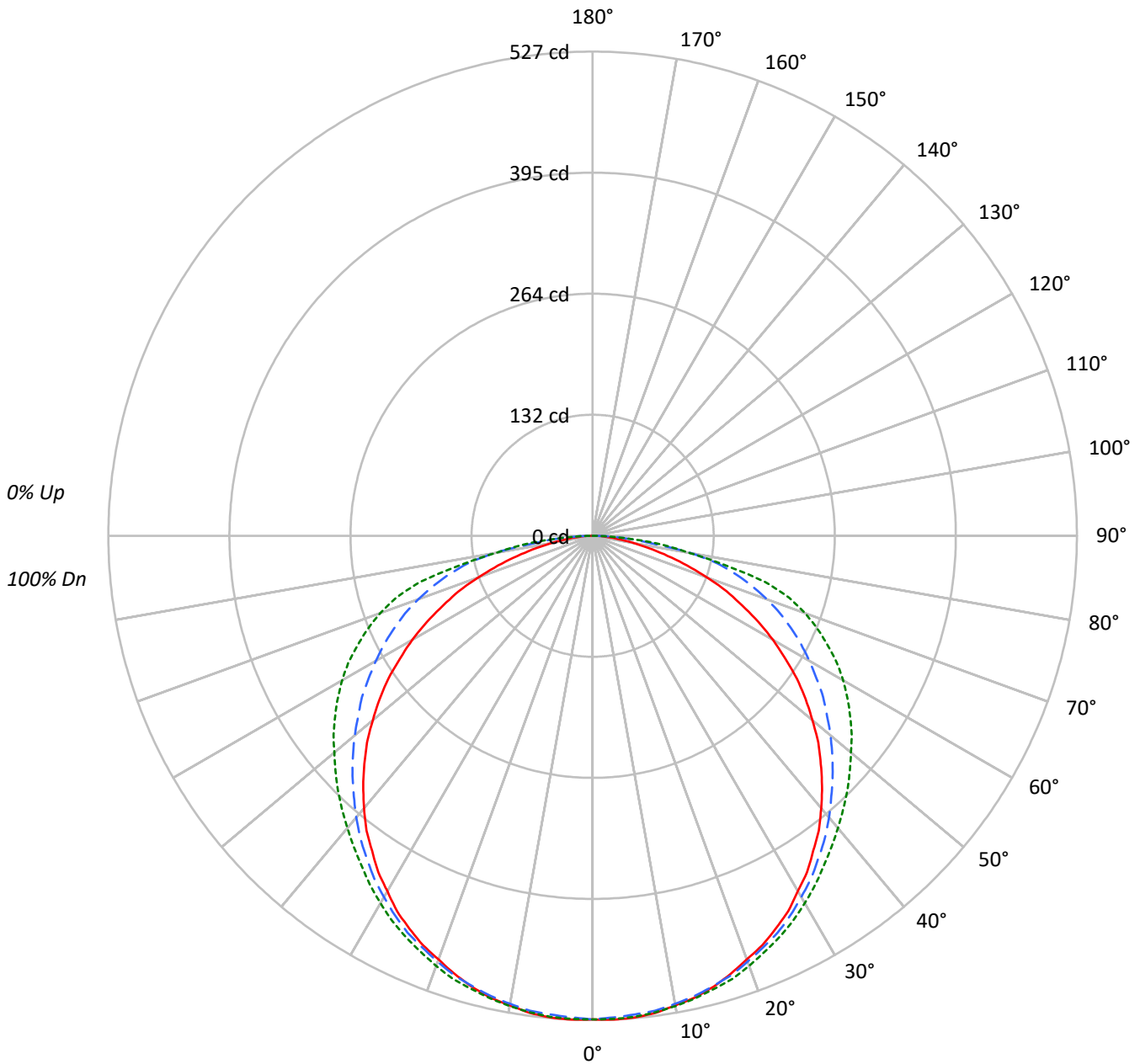
Lumens per Lamp: N/A
Luminaire Lumens: 1674.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P733973

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CP187-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	100	100	100	100	100	100	100	100										
	1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82	82	82	82	82	82	82	82	82										
	2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67	67	67	67	67	67	67	67	67										
	3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56	56	56	56	56	56	56	56	56										
	4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47	47	47	47	47	47	47	47	47										
	5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40	40	40	40	40	40	40	40	40										
	6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35	35	35	35	35	35	35	35	35										
	7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31	31	31	31	31	31	31	31	31										
	8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27	27	27	27	27	27	27	27	27										
	9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24	24	24	24	24	24	24	24	24										
	10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22	22	22	22	22	22	22	22	22										

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	743	743	743
5°	746	741	745
10°	744	741	745
15°	743	741	746
20°	737	741	748
25°	735	742	750
30°	728	740	752
35°	721	738	755
40°	713	737	765
45°	701	737	782
50°	685	742	806
55°	668	754	842
60°	640	769	888
65°	599	796	943
70°	545	832	1014
75°	462	878	1060
80°	365	883	857
85°	269	672	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.0
10°-20°	143.7	8.6
20°-30°	219.8	13.1
30°-40°	268.7	16.0
40°-50°	286.3	17.1
50°-60°	273.8	16.4
60°-70°	231.9	13.9
70°-80°	155.9	9.3
80°-90°	44.0	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°	413.4	24.7
0°-40°	682.1	40.7
0°-60°	1242.2	74.2
0°-90°	1674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	526	526	523	526	526	50
15°	508	508	507	512	511	143
25°	472	473	477	481	482	217
35°	418	422	428	437	438	262
45°	351	357	370	385	392	271
55°	272	281	306	330	342	242
65°	179	198	238	270	282	178
75°	85	115	161	188	194	91
85°	17	34	42	45	46	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.4	526.4	526.4	526.4	526.4
2.5°	527.2	527.2	524.7	526.4	526.4
5°	526.4	525.6	523.1	525.6	525.6
7.5°	523.9	523.1	521.4	523.9	523.1
10°	518.9	518.9	517.3	519.8	519.8
12.5°	514.8	514.0	513.1	516.4	515.6
15°	508.2	508.2	507.3	511.5	510.6
17.5°	499.9	500.7	501.5	504.8	505.7
20°	490.7	492.4	493.2	498.2	498.2
22.5°	482.4	483.3	484.9	489.9	489.9
25°	471.7	473.3	476.6	480.8	481.6
27.5°	460.9	461.7	465.9	471.7	472.5
30°	446.7	449.2	454.1	460.9	461.7
32.5°	434.2	436.7	442.5	449.2	450.8
35°	418.5	421.8	428.4	436.7	438.4
37.5°	404.4	406.9	415.2	424.3	426.8
40°	387.0	391.9	400.2	411.0	415.2
42.5°	369.5	374.4	384.5	398.6	403.6
45°	351.2	357.0	369.5	385.3	391.9
47.5°	333.0	339.6	353.7	371.9	379.5
50°	312.2	320.5	337.9	358.7	367.0
52.5°	292.2	302.3	321.4	344.6	355.4
55°	271.5	281.4	306.4	330.5	342.1
57.5°	248.3	261.5	288.9	316.4	328.8
60°	226.7	239.1	272.3	302.3	314.7
62.5°	203.4	220.1	255.7	287.2	299.8
65°	179.3	197.6	238.3	269.8	282.3
67.5°	157.8	177.7	220.9	252.4	264.9
70°	132.1	156.9	201.7	233.3	245.8
72.5°	107.9	135.4	181.8	212.6	224.2
75°	84.7	115.4	161.1	188.5	194.3
77.5°	63.1	95.5	139.5	151.1	147.0
80°	44.9	76.4	108.7	102.9	105.4
82.5°	29.0	58.2	67.3	76.4	78.9
85°	16.6	34.0	41.5	44.9	46.5
87.5°	7.5	12.4	16.6	16.6	15.8
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)