

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: P734050

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-B2750-W2D-CP187-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

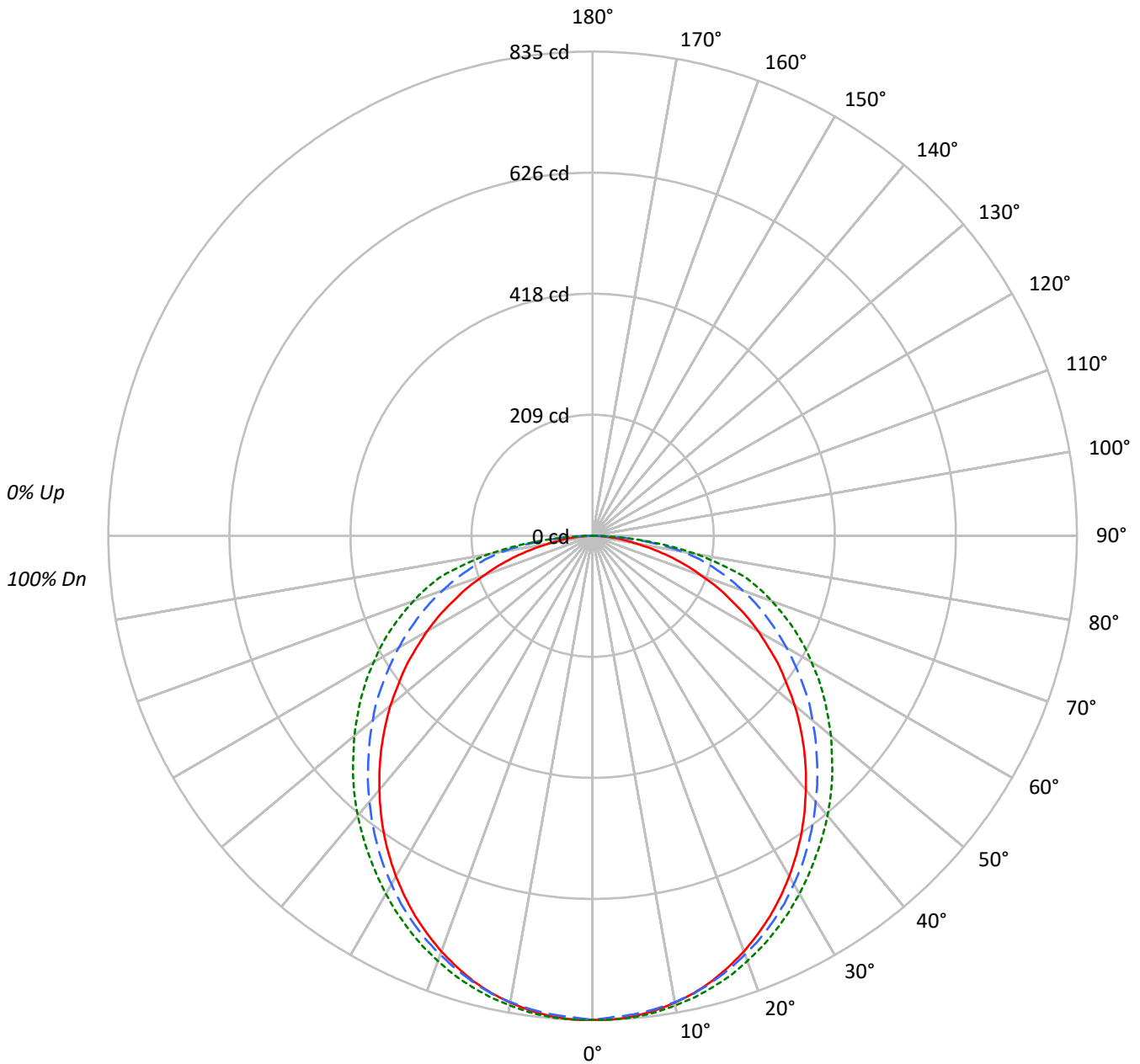
Lumens per Lamp: N/A
Luminaire Lumens: 2487.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	89	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56								
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48								
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36								
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32								
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28								
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25								
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1178	1178	1178
5°	1178	1173	1181
10°	1172	1170	1179
15°	1162	1164	1176
20°	1146	1154	1172
25°	1127	1144	1167
30°	1105	1131	1162
35°	1081	1117	1158
40°	1054	1102	1161
45°	1027	1092	1166
50°	999	1086	1177
55°	968	1085	1199
60°	930	1090	1230
65°	881	1106	1283
70°	819	1134	1356
75°	747	1190	1471
80°	614	1282	1471
85°	470	1182	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.2
10°-20°	225.5	9.1
20°-30°	339.3	13.6
30°-40°	406.6	16.3
40°-50°	423.7	17.0
50°-60°	394.2	15.9
60°-70°	324.7	13.1
70°-80°	221.1	8.9
80°-90°	73.0	2.9
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°	643.7	25.9
0°-40°	1050.3	42.2
0°-60°	1868.2	75.1
0°-90°	2487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	832	832	828	832	833	79
15°	795	796	797	804	805	224
25°	724	727	735	747	750	333
35°	628	635	648	666	672	392
45°	515	525	547	574	584	397
55°	394	407	441	476	487	351
65°	264	286	331	370	384	262
75°	137	168	218	257	270	144
85°	29	56	73	78	78	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.0	835.0	835.0	835.0	835.0
2.5°	835.0	835.0	830.8	835.0	835.0
5°	831.6	831.6	828.3	832.5	833.3
7.5°	825.8	826.7	823.4	828.3	829.2
10°	817.5	818.4	816.7	821.7	822.5
12.5°	807.6	808.4	808.4	814.2	815.1
15°	795.1	796.0	796.8	804.3	805.1
17.5°	779.4	781.9	783.5	792.7	794.3
20°	762.8	765.3	768.6	778.5	780.2
22.5°	743.7	747.0	752.8	763.6	766.1
25°	723.8	727.1	734.6	747.0	749.5
27.5°	701.4	706.4	715.5	728.8	732.1
30°	678.2	683.1	693.9	708.0	713.0
32.5°	653.3	659.9	672.3	688.1	693.1
35°	627.5	635.0	648.3	665.7	672.3
37.5°	600.1	608.4	624.2	643.3	651.6
40°	571.9	581.8	598.4	620.9	630.0
42.5°	543.6	552.8	573.5	597.6	607.5
45°	514.6	525.4	547.0	574.3	584.3
47.5°	484.7	495.5	521.2	550.3	559.4
50°	454.9	465.7	494.7	525.4	536.2
52.5°	422.5	436.6	469.8	500.5	511.3
55°	393.5	406.7	440.8	475.6	487.2
57.5°	360.2	376.0	413.4	449.9	462.3
60°	329.5	346.1	386.0	423.3	435.8
62.5°	298.0	316.2	358.5	396.8	410.9
65°	263.9	286.3	331.1	370.2	384.3
67.5°	233.2	256.5	303.8	343.6	356.0
70°	198.4	226.6	274.7	314.6	328.7
72.5°	168.5	196.7	247.3	286.3	300.4
75°	137.0	167.7	218.3	257.3	269.7
77.5°	105.4	139.5	190.1	220.0	224.1
80°	75.5	111.2	157.7	175.2	181.0
82.5°	53.1	85.5	116.2	127.9	131.2
85°	29.0	56.4	73.0	78.0	78.0
87.5°	12.4	24.1	29.0	29.9	30.7
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)