

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: P734114

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CA08-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

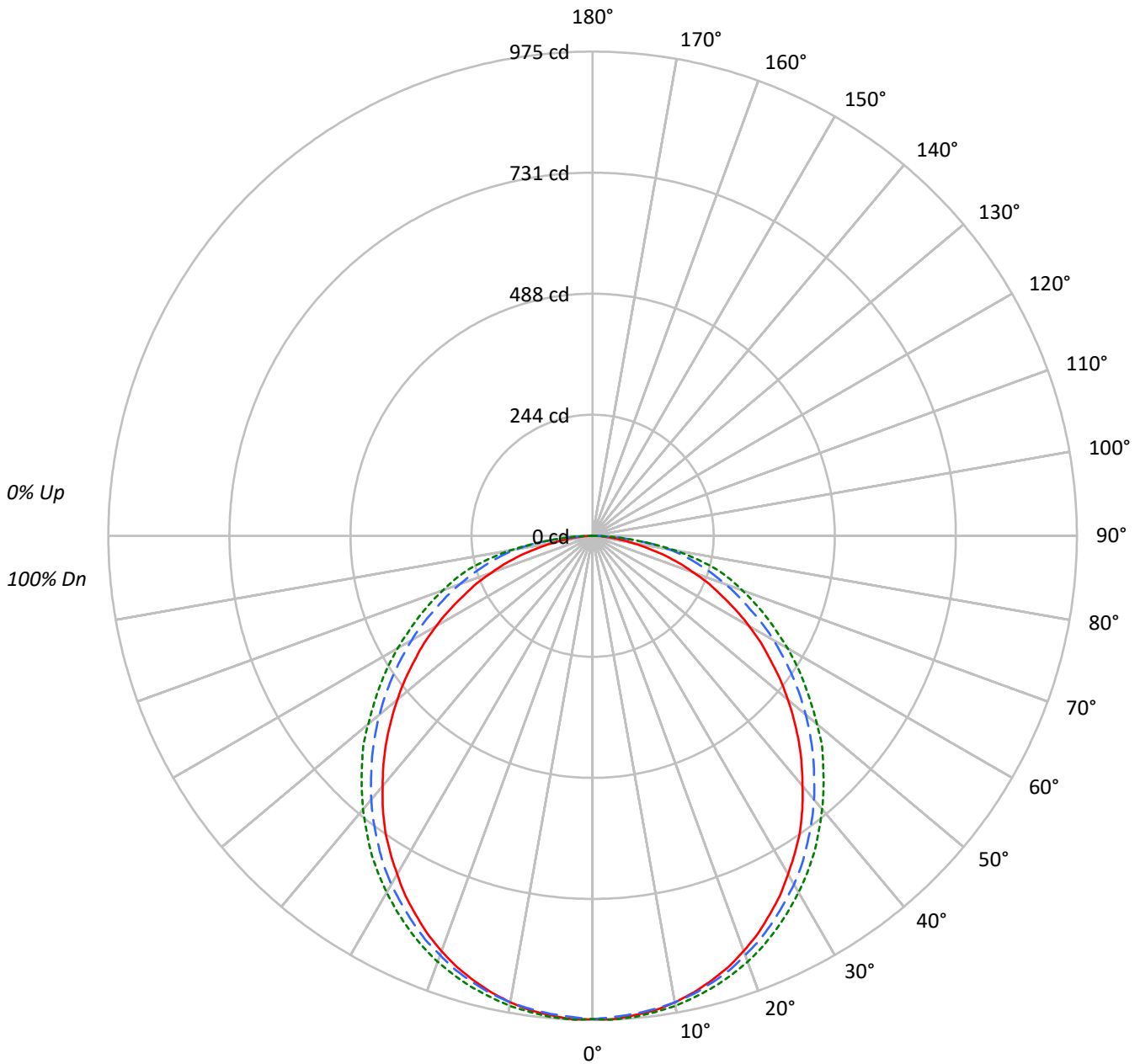
Lumens per Lamp: N/A
Luminaire Lumens: 2771.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1374	1374	1374
5°	1373	1369	1378
10°	1367	1367	1377
15°	1354	1361	1375
20°	1336	1350	1371
25°	1312	1336	1362
30°	1282	1321	1351
35°	1254	1300	1341
40°	1211	1278	1325
45°	1172	1253	1311
50°	1127	1229	1295
55°	1076	1206	1282
60°	1026	1188	1279
65°	961	1167	1287
70°	890	1173	1322
75°	797	1195	1397
80°	644	1266	1366
85°	484	1111	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.3
10°-20°	263.3	9.5
20°-30°	395.8	14.3
30°-40°	471.5	17.0
40°-50°	482.6	17.4
50°-60°	434.5	15.7
60°-70°	341.2	12.3
70°-80°	221.4	8.0
80°-90°	68.5	2.5
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°	751.3	27.1
0°-40°	1222.8	44.1
0°-60°	2139.9	77.2
0°-90°	2771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	969	971	966	972	973	92
15°	927	930	931	939	941	261
25°	842	849	858	872	875	388
35°	728	737	754	773	778	454
45°	587	601	628	651	657	453
55°	437	457	490	516	521	392
65°	288	310	349	378	386	286
75°	146	174	219	249	256	155
85°	30	56	69	67	67	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.5	973.5	973.5	973.5	973.5
2.5°	974.4	974.4	969.9	974.4	975.2
5°	969.1	970.9	966.4	971.7	972.6
7.5°	963.8	963.8	961.1	966.4	967.4
10°	954.1	955.0	954.1	960.3	961.1
12.5°	941.8	943.5	944.5	950.6	951.5
15°	926.9	929.5	931.2	939.2	941.0
17.5°	910.1	912.8	917.1	925.9	927.7
20°	889.8	893.3	898.6	910.1	912.8
22.5°	867.9	871.4	880.2	890.7	895.1
25°	842.3	849.3	858.1	872.2	874.9
27.5°	816.8	822.9	834.4	849.3	852.9
30°	786.9	796.5	810.6	825.6	829.1
32.5°	757.8	767.5	784.2	800.1	804.5
35°	727.9	736.7	754.3	772.8	778.1
37.5°	693.6	705.0	724.4	742.9	748.2
40°	657.5	671.6	693.6	713.0	719.1
42.5°	623.1	638.1	660.1	681.2	688.2
45°	587.1	601.2	627.6	651.3	656.6
47.5°	550.1	566.0	594.1	617.8	626.6
50°	513.2	529.9	559.8	584.4	589.7
52.5°	476.2	493.8	525.5	551.9	554.5
55°	437.4	456.9	490.3	515.8	521.1
57.5°	402.2	419.0	455.0	481.5	487.6
60°	363.5	382.0	420.7	445.4	453.2
62.5°	326.5	345.9	386.4	411.0	418.0
65°	287.8	309.9	349.4	378.5	385.5
67.5°	254.4	275.5	317.7	345.9	352.9
70°	215.6	239.5	284.3	313.4	320.4
72.5°	182.2	206.8	251.8	279.9	290.5
75°	146.1	174.2	219.2	249.1	256.1
77.5°	110.9	143.5	189.2	212.1	212.1
80°	79.2	113.6	155.8	166.4	168.1
82.5°	52.0	85.4	115.3	114.4	114.4
85°	29.9	55.5	68.6	66.9	66.9
87.5°	11.5	22.9	24.6	24.6	23.8
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)