

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: P734063

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-HRP-B2750-W2D-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

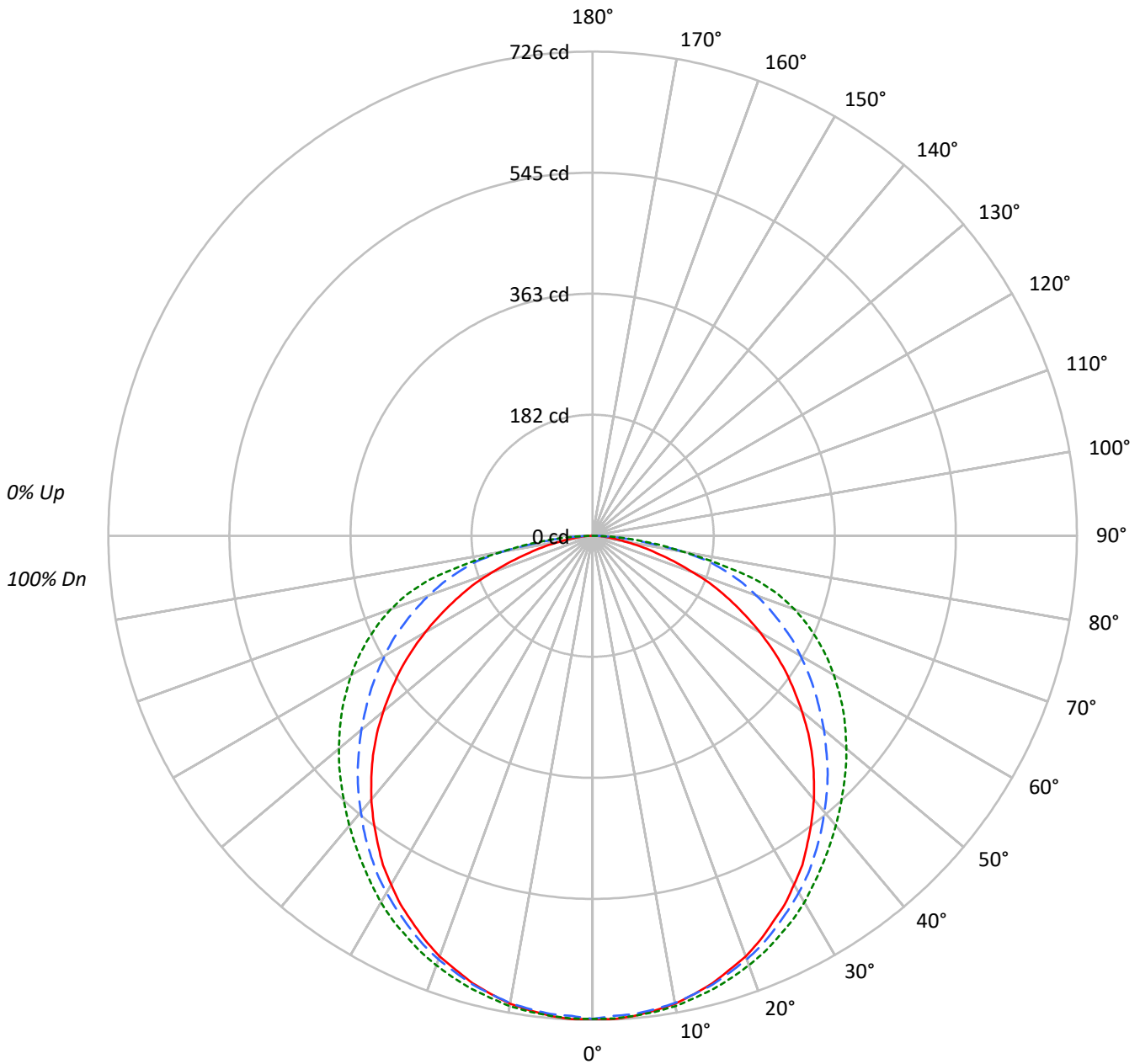
Lumens per Lamp: N/A
Luminaire Lumens: 2233.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	101	96	93	96	93	90	92	90	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	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1023	1023	1023
5°	1024	1020	1024
10°	1021	1019	1026
15°	1015	1018	1027
20°	1008	1015	1029
25°	996	1010	1031
30°	984	1007	1034
35°	968	1002	1036
40°	951	996	1045
45°	929	995	1062
50°	899	994	1090
55°	867	1000	1129
60°	818	1016	1179
65°	755	1040	1246
70°	660	1076	1327
75°	535	1131	1371
80°	395	1109	1109
85°	303	818	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.1
10°-20°	197.1	8.8
20°-30°	300.0	13.4
30°-40°	364.3	16.3
40°-50°	384.9	17.2
50°-60°	363.2	16.3
60°-70°	302.0	13.5
70°-80°	198.7	8.9
80°-90°	54.2	2.4
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°	565.8	25.3
0°-40°	930.1	41.7
0°-60°	1678.2	75.2
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	723	720	723	723	69
15°	695	696	696	703	703	196
25°	639	643	649	660	662	295
35°	562	568	582	596	601	352
45°	466	475	498	523	532	359
55°	352	367	407	445	459	314
65°	226	252	311	357	373	224
75°	98	143	208	246	252	106
85°	19	41	50	56	57	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.5	724.5	724.5	724.5	724.5
2.5°	725.5	724.5	720.7	724.5	724.5
5°	722.7	722.7	719.8	722.7	722.7
7.5°	717.9	717.9	716.1	719.8	719.8
10°	712.4	712.4	711.3	716.1	716.1
12.5°	703.9	704.9	703.9	709.5	709.5
15°	694.6	695.5	696.4	703.0	703.0
17.5°	682.4	684.3	686.1	693.7	694.6
20°	671.2	672.2	675.9	684.3	685.2
22.5°	656.2	659.1	663.7	672.2	674.9
25°	639.4	643.1	648.8	660.0	661.9
27.5°	623.5	626.4	633.8	645.9	649.7
30°	603.9	608.6	617.9	630.1	634.7
32.5°	585.2	589.8	601.1	614.2	617.9
35°	561.9	568.3	581.5	596.4	601.1
37.5°	539.4	545.9	561.9	578.6	584.3
40°	516.0	523.5	540.4	560.0	567.4
42.5°	490.8	501.1	519.8	541.3	549.7
45°	465.6	474.9	498.3	522.6	531.9
47.5°	438.4	449.6	474.9	503.8	515.0
50°	409.5	423.5	452.5	484.3	496.4
52.5°	380.5	396.3	429.0	464.6	477.7
55°	352.4	367.4	406.6	445.0	459.0
57.5°	321.6	340.2	383.2	424.4	438.4
60°	289.8	310.4	359.9	402.9	417.8
62.5°	258.0	281.4	337.5	380.5	396.3
65°	226.2	252.4	311.3	357.1	373.0
67.5°	195.4	224.4	286.9	332.8	348.7
70°	159.9	196.3	260.8	305.7	321.6
72.5°	127.2	169.3	235.6	277.7	291.7
75°	98.2	143.0	207.5	245.9	251.5
77.5°	72.0	116.9	178.5	191.7	192.6
80°	48.6	93.5	136.5	134.6	136.5
82.5°	31.8	70.1	86.0	96.3	97.2
85°	18.7	41.2	50.5	56.1	57.0
87.5°	9.4	14.0	17.8	18.7	20.6
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)