

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: P733936

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733936
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: 24FCZ2-30-HRP-B2750-W2D-CA08-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

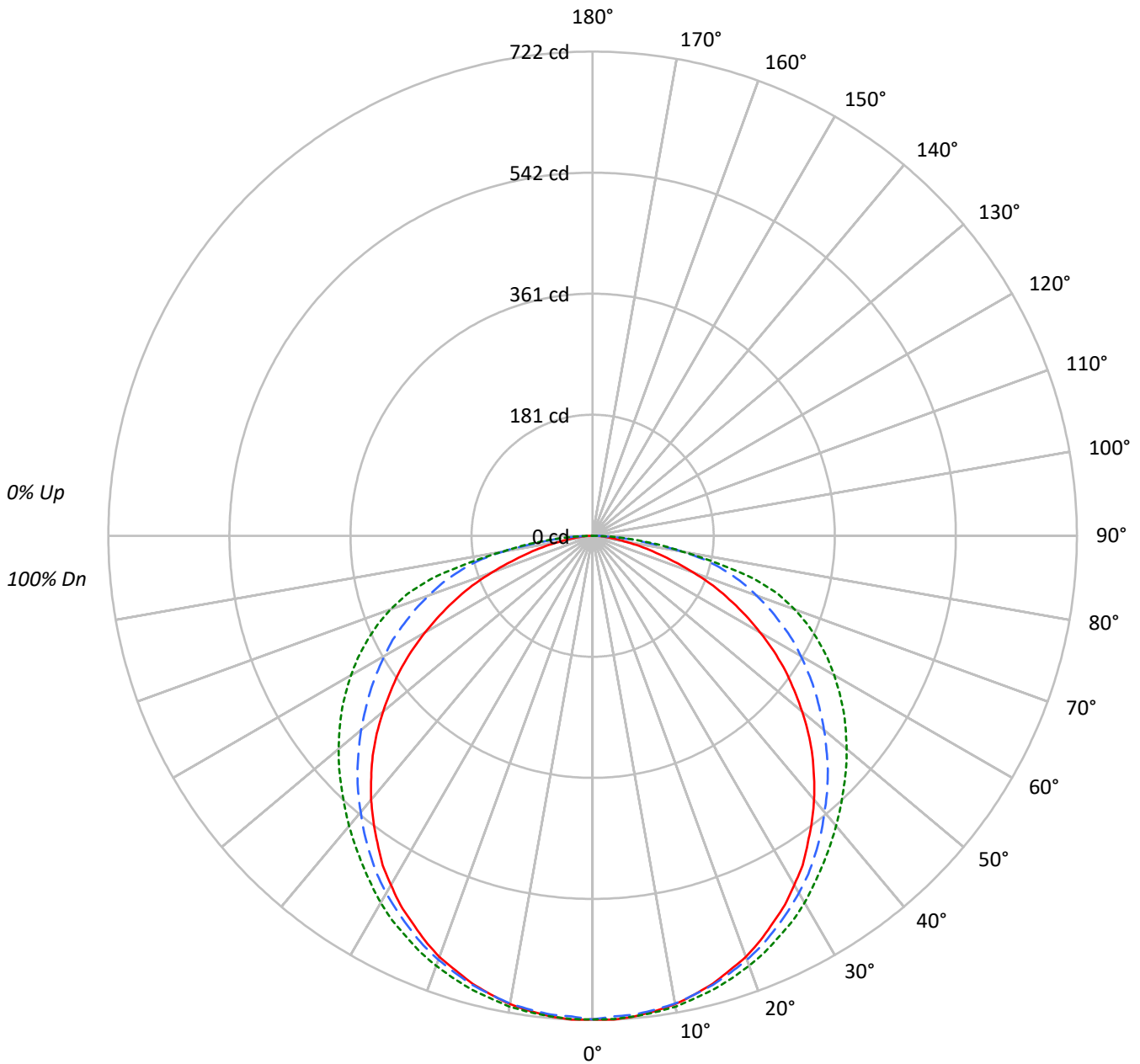
Lumens per Lamp: N/A
Luminaire Lumens: 2223.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	1018	1018	1018
5°	1019	1015	1019
10°	1016	1015	1022
15°	1010	1013	1023
20°	1004	1010	1025
25°	991	1006	1026
30°	980	1003	1030
35°	964	997	1031
40°	946	991	1041
45°	925	990	1057
50°	895	989	1085
55°	863	996	1124
60°	814	1011	1174
65°	752	1035	1240
70°	657	1071	1321
75°	533	1127	1365
80°	393	1105	1105
85°	301	815	918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.1
10°-20°	196.2	8.8
20°-30°	298.7	13.4
30°-40°	362.7	16.3
40°-50°	383.2	17.2
50°-60°	361.6	16.3
60°-70°	300.6	13.5
70°-80°	197.8	8.9
80°-90°	53.9	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°	563.2	25.3
0°-40°	925.9	41.7
0°-60°	1670.7	75.2
0°-90°	2223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	719	719	717	719	719	68
15°	692	692	693	700	700	195
25°	637	640	646	657	659	294
35°	559	566	579	594	598	350
45°	464	473	496	520	530	357
55°	351	366	405	443	457	313
65°	225	251	310	356	371	223
75°	98	142	207	245	250	105
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°	721.3	721.3	721.3	721.3	721.3
2.5°	722.2	721.3	717.5	721.3	721.3
5°	719.4	719.4	716.6	719.4	719.4
7.5°	714.7	714.7	712.9	716.6	716.6
10°	709.2	709.2	708.2	712.9	712.9
12.5°	700.8	701.7	700.8	706.3	706.3
15°	691.5	692.4	693.3	699.9	699.9
17.5°	679.4	681.2	683.1	690.6	691.5
20°	668.2	669.1	672.8	681.2	682.2
22.5°	653.3	656.1	660.7	669.1	671.9
25°	636.6	640.3	645.9	657.1	658.9
27.5°	620.7	623.6	630.9	643.0	646.8
30°	601.2	605.8	615.2	627.3	631.9
32.5°	582.6	587.2	598.4	611.5	615.2
35°	559.3	565.8	578.9	593.8	598.4
37.5°	537.0	543.5	559.3	576.0	581.7
40°	513.7	521.1	537.9	557.5	564.9
42.5°	488.6	498.8	517.5	538.9	547.3
45°	463.5	472.8	496.0	520.2	529.5
47.5°	436.4	447.6	472.8	501.6	512.7
50°	407.7	421.6	450.5	482.1	494.2
52.5°	378.8	394.5	427.1	462.6	475.6
55°	350.8	365.8	404.8	443.0	456.9
57.5°	320.2	338.7	381.5	422.5	436.4
60°	288.5	309.0	358.3	401.1	415.9
62.5°	256.9	280.1	336.0	378.8	394.5
65°	225.2	251.2	309.9	355.5	371.3
67.5°	194.5	223.4	285.7	331.4	347.1
70°	159.2	195.4	259.6	304.3	320.2
72.5°	126.6	168.5	234.6	276.5	290.4
75°	97.7	142.4	206.6	244.8	250.3
77.5°	71.7	116.4	177.7	190.8	191.7
80°	48.3	93.1	135.9	134.0	135.9
82.5°	31.7	69.7	85.6	95.9	96.8
85°	18.6	41.0	50.3	55.8	56.7
87.5°	9.3	13.9	17.7	18.6	20.5
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)