

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: P734312

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734312
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: 24FCZ2-35HE-HRP-B2750-W2D-CA08-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

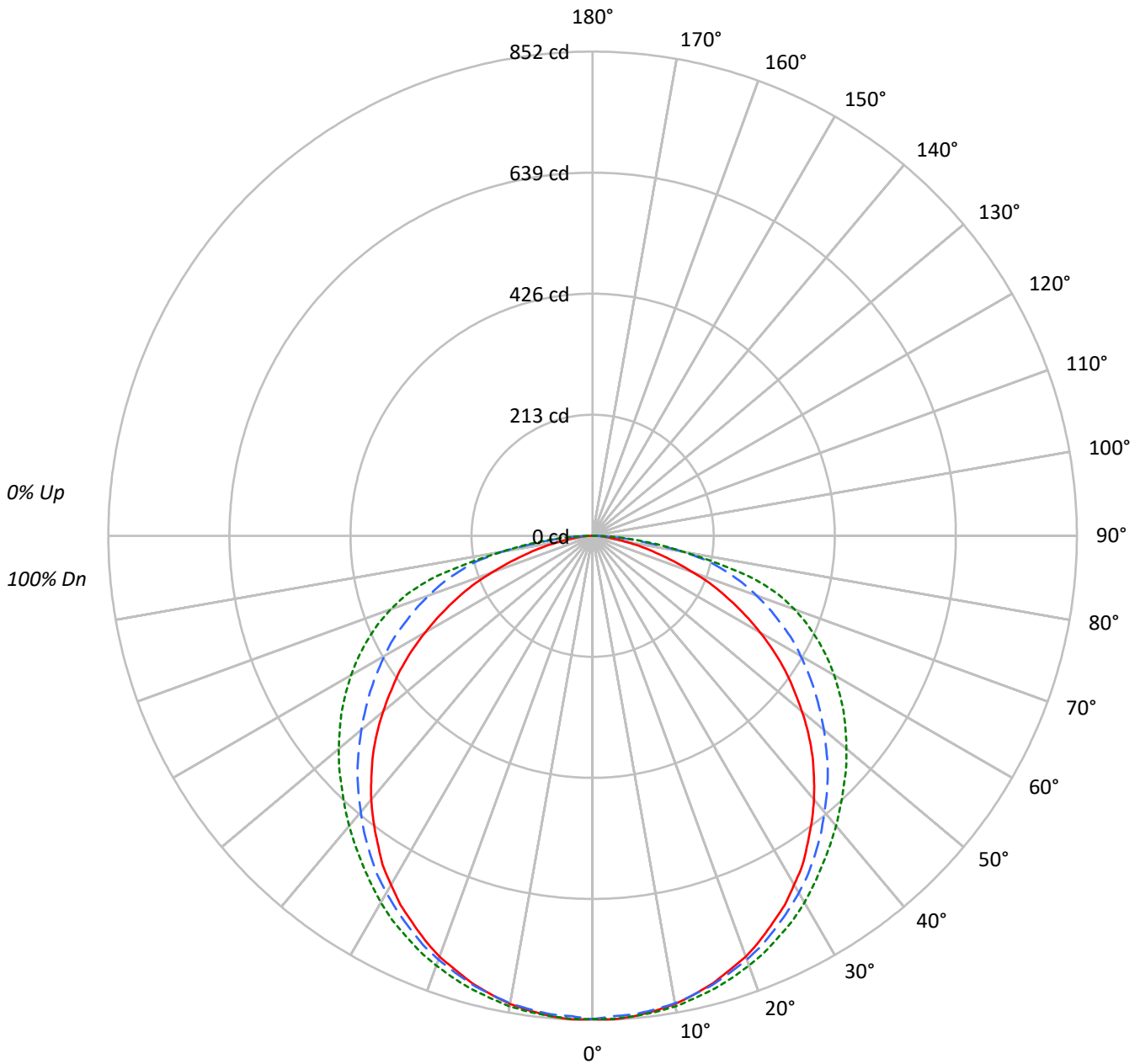
Lumens per Lamp: N/A
Luminaire Lumens: 2622.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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°	1201	1201	1201
5°	1202	1197	1202
10°	1199	1197	1205
15°	1192	1195	1206
20°	1184	1192	1208
25°	1169	1186	1210
30°	1156	1182	1215
35°	1137	1176	1216
40°	1116	1169	1228
45°	1091	1168	1247
50°	1056	1167	1280
55°	1018	1175	1326
60°	961	1193	1385
65°	887	1221	1462
70°	775	1264	1559
75°	629	1329	1610
80°	463	1303	1303
85°	356	960	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.1
10°-20°	231.4	8.8
20°-30°	352.3	13.4
30°-40°	427.8	16.3
40°-50°	452.0	17.2
50°-60°	426.5	16.3
60°-70°	354.6	13.5
70°-80°	233.3	8.9
80°-90°	63.6	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°	664.3	25.3
0°-40°	1092.1	41.7
0°-60°	1970.5	75.2
0°-90°	2622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	849	849	845	849	849	81
15°	816	817	818	826	826	230
25°	751	755	762	775	777	346
35°	660	667	683	700	706	413
45°	547	558	585	614	625	421
55°	414	431	477	522	539	369
65°	266	296	366	419	438	263
75°	115	168	244	289	295	124
85°	22	48	59	66	67	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.7	850.7	850.7	850.7	850.7
2.5°	851.8	850.7	846.3	850.7	850.7
5°	848.6	848.6	845.2	848.6	848.6
7.5°	843.0	843.0	840.8	845.2	845.2
10°	836.5	836.5	835.3	840.8	840.8
12.5°	826.6	827.7	826.6	833.1	833.1
15°	815.6	816.7	817.8	825.5	825.5
17.5°	801.3	803.5	805.7	814.5	815.6
20°	788.2	789.2	793.6	803.5	804.6
22.5°	770.5	773.9	779.3	789.2	792.5
25°	750.8	755.2	761.8	775.0	777.2
27.5°	732.1	735.5	744.2	758.4	762.9
30°	709.2	714.6	725.6	739.8	745.3
32.5°	687.2	692.6	705.8	721.2	725.6
35°	659.7	667.3	682.8	700.3	705.8
37.5°	633.4	641.0	659.7	679.4	686.1
40°	605.9	614.7	634.5	657.6	666.3
42.5°	576.3	588.3	610.3	635.6	645.5
45°	546.7	557.7	585.1	613.6	624.6
47.5°	514.8	527.9	557.7	591.6	604.8
50°	480.8	497.3	531.3	568.7	582.9
52.5°	446.8	465.3	503.8	545.6	560.9
55°	413.8	431.4	477.4	522.5	538.9
57.5°	377.7	399.5	450.0	498.3	514.8
60°	340.3	364.5	422.6	473.1	490.6
62.5°	303.0	330.4	396.3	446.8	465.3
65°	265.7	296.3	365.6	419.3	437.9
67.5°	229.4	263.5	336.9	390.8	409.4
70°	187.7	230.5	306.3	358.9	377.7
72.5°	149.3	198.7	276.7	326.1	342.5
75°	115.3	167.9	243.7	288.7	295.3
77.5°	84.6	137.2	209.6	225.1	226.2
80°	57.0	109.8	160.3	158.0	160.3
82.5°	37.3	82.3	101.0	113.1	114.2
85°	22.0	48.3	59.3	65.8	66.9
87.5°	11.0	16.4	20.9	22.0	24.2
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)