

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: P734315

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734315
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-CA08-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

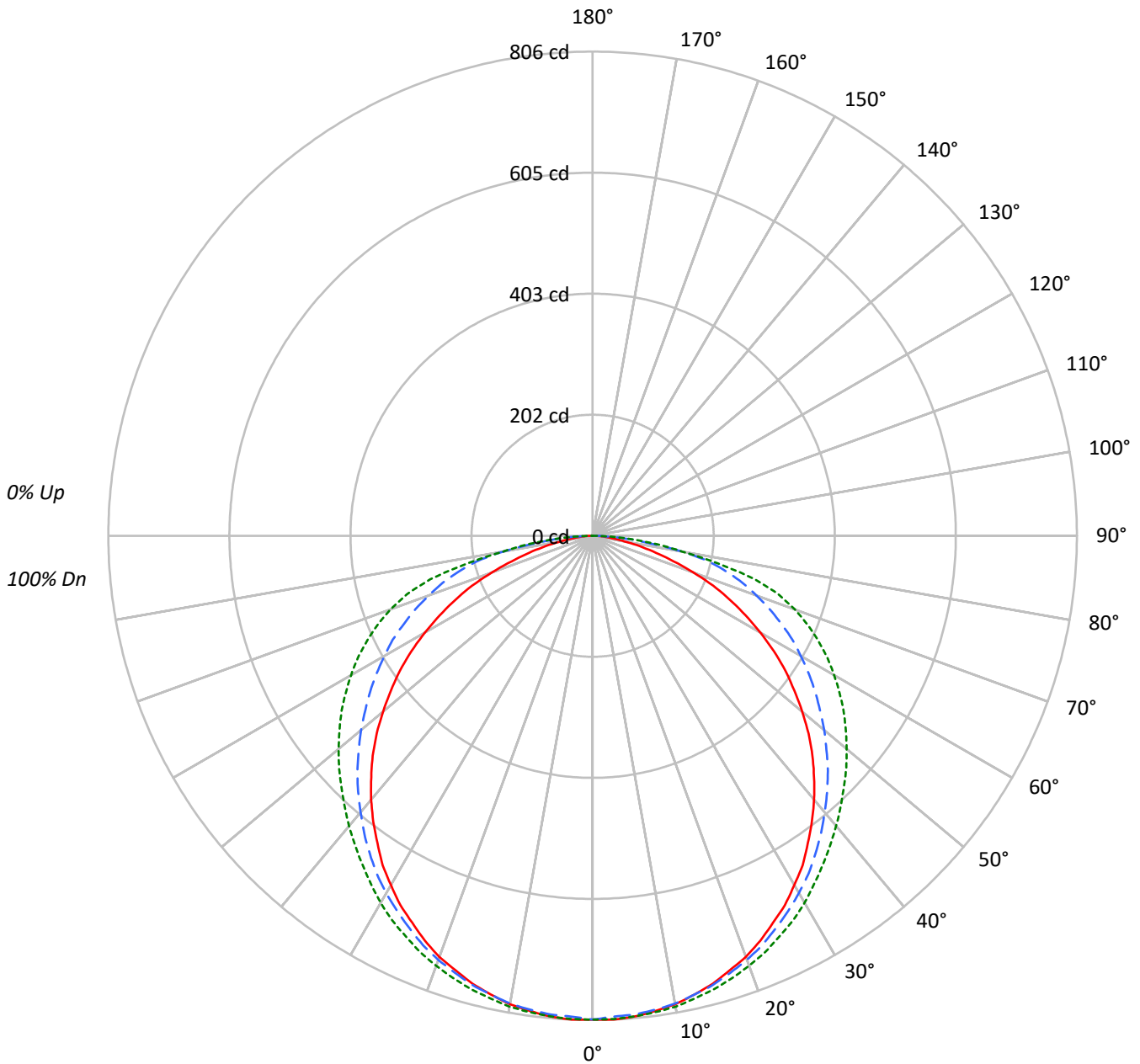
Lumens per Lamp: N/A
Luminaire Lumens: 2482.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1137	1137	1137
5°	1138	1133	1138
10°	1135	1133	1141
15°	1128	1131	1142
20°	1121	1128	1144
25°	1107	1123	1146
30°	1094	1119	1150
35°	1076	1114	1151
40°	1057	1107	1162
45°	1033	1105	1180
50°	999	1104	1212
55°	964	1112	1255
60°	909	1129	1311
65°	840	1156	1384
70°	733	1196	1475
75°	595	1258	1524
80°	439	1234	1234
85°	337	910	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.1
10°-20°	219.1	8.8
20°-30°	333.5	13.4
30°-40°	404.9	16.3
40°-50°	427.8	17.2
50°-60°	403.7	16.3
60°-70°	335.7	13.5
70°-80°	220.9	8.9
80°-90°	60.2	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°	628.8	25.3
0°-40°	1033.8	41.7
0°-60°	1865.3	75.2
0°-90°	2482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	803	803	800	803	803	76
15°	772	773	774	781	781	218
25°	711	715	721	734	736	328
35°	624	632	646	663	668	391
45°	518	528	554	581	591	398
55°	392	408	452	495	510	349
65°	252	280	346	397	414	249
75°	109	159	231	273	280	118
85°	21	46	56	62	63	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.3	805.3	805.3	805.3	805.3
2.5°	806.3	805.3	801.1	805.3	805.3
5°	803.3	803.3	800.0	803.3	803.3
7.5°	798.0	798.0	795.9	800.0	800.0
10°	791.8	791.8	790.7	795.9	795.9
12.5°	782.4	783.5	782.4	788.6	788.6
15°	772.0	773.1	774.1	781.4	781.4
17.5°	758.5	760.6	762.7	771.0	772.0
20°	746.1	747.1	751.2	760.6	761.6
22.5°	729.4	732.6	737.7	747.1	750.2
25°	710.7	714.9	721.1	733.6	735.7
27.5°	693.0	696.2	704.4	717.9	722.2
30°	671.3	676.4	686.8	700.3	705.5
32.5°	650.5	655.6	668.1	682.7	686.8
35°	624.5	631.7	646.4	662.9	668.1
37.5°	599.6	606.8	624.5	643.1	649.4
40°	573.5	581.9	600.6	622.5	630.7
42.5°	545.5	556.9	577.7	601.6	611.0
45°	517.5	527.9	553.8	580.8	591.2
47.5°	487.3	499.7	527.9	560.0	572.5
50°	455.2	470.7	503.0	538.3	551.8
52.5°	422.9	440.5	476.9	516.4	531.0
55°	391.7	408.4	451.9	494.6	510.2
57.5°	357.5	378.2	426.0	471.7	487.3
60°	322.2	345.0	400.0	447.8	464.4
62.5°	286.8	312.8	375.1	422.9	440.5
65°	251.5	280.5	346.1	396.9	414.5
67.5°	217.2	249.4	318.9	370.0	387.6
70°	177.7	218.2	289.9	339.8	357.5
72.5°	141.4	188.1	261.9	308.7	324.2
75°	109.1	159.0	230.7	273.3	279.5
77.5°	80.1	129.9	198.4	213.1	214.1
80°	54.0	104.0	151.8	149.6	151.8
82.5°	35.3	77.9	95.6	107.0	108.1
85°	20.8	45.7	56.2	62.3	63.4
87.5°	10.4	15.5	19.8	20.8	22.9
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)