

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: P734330

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734330
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-CP250-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

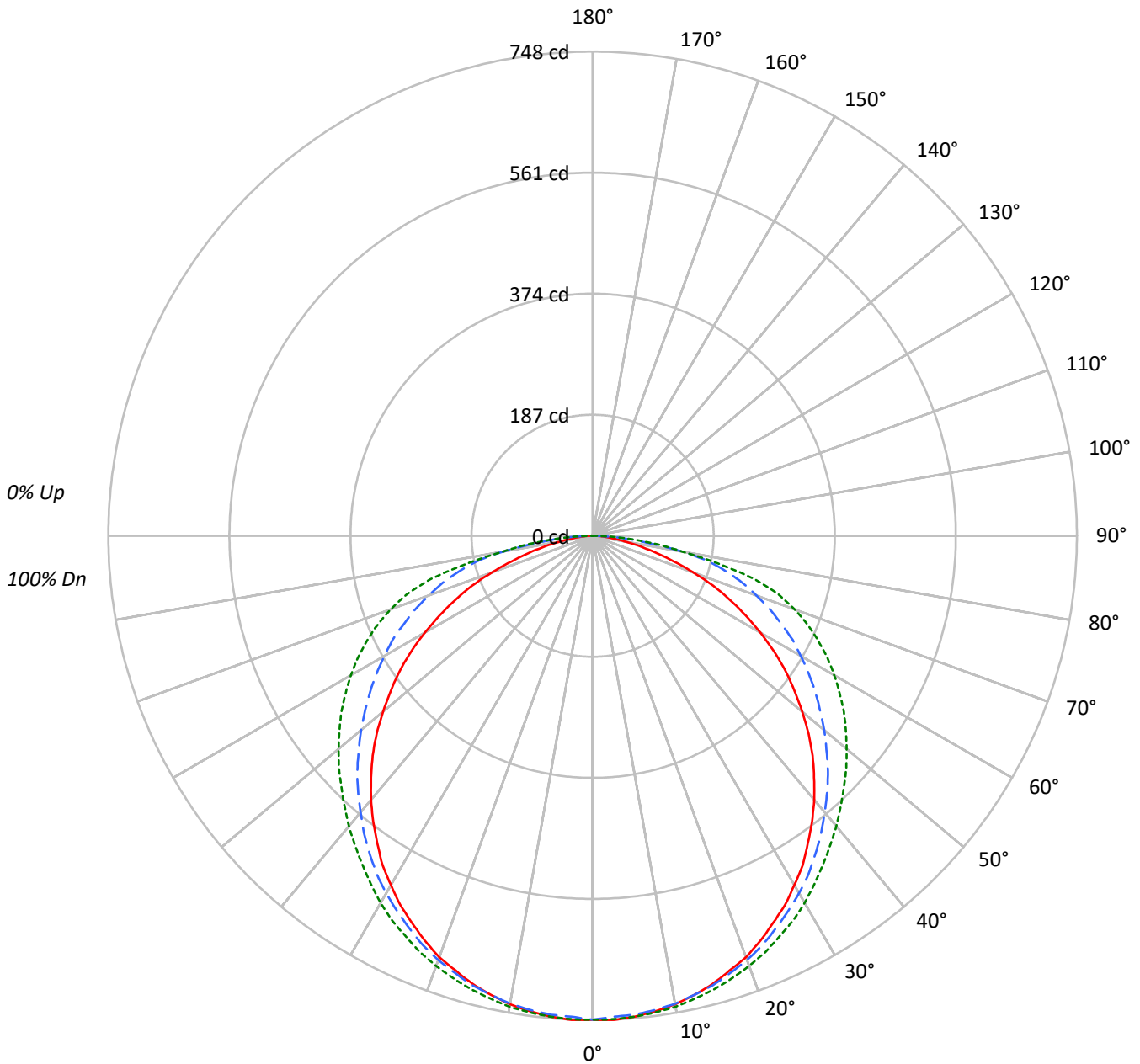
Lumens per Lamp: N/A
Luminaire Lumens: 2304.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1055	1055	1055
5°	1056	1052	1056
10°	1053	1052	1059
15°	1047	1050	1060
20°	1040	1047	1062
25°	1027	1042	1063
30°	1015	1039	1067
35°	999	1034	1069
40°	981	1027	1079
45°	959	1026	1095
50°	928	1025	1125
55°	895	1032	1165
60°	844	1048	1217
65°	779	1073	1285
70°	681	1110	1370
75°	552	1167	1415
80°	407	1145	1145
85°	313	844	952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.1
10°-20°	203.4	8.8
20°-30°	309.6	13.4
30°-40°	375.9	16.3
40°-50°	397.1	17.2
50°-60°	374.7	16.3
60°-70°	311.6	13.5
70°-80°	205.0	8.9
80°-90°	55.9	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°	583.7	25.3
0°-40°	959.6	41.7
0°-60°	1731.5	75.2
0°-90°	2304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	746	746	743	746	746	71
15°	717	718	719	725	725	202
25°	660	664	669	681	683	304
35°	580	586	600	615	620	363
45°	480	490	514	539	549	370
55°	364	379	420	459	474	324
65°	233	260	321	368	385	231
75°	101	148	214	254	259	109
85°	19	42	52	58	59	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.6	747.6	747.6	747.6	747.6
2.5°	748.5	747.6	743.6	747.6	747.6
5°	745.7	745.7	742.7	745.7	745.7
7.5°	740.8	740.8	738.9	742.7	742.7
10°	735.0	735.0	734.0	738.9	738.9
12.5°	726.3	727.3	726.3	732.1	732.1
15°	716.7	717.6	718.6	725.4	725.4
17.5°	704.1	706.1	708.0	715.7	716.7
20°	692.6	693.5	697.3	706.1	707.0
22.5°	677.1	680.0	684.8	693.5	696.4
25°	659.8	663.6	669.4	681.0	682.9
27.5°	643.3	646.3	653.9	666.4	670.4
30°	623.1	627.9	637.6	650.1	654.9
32.5°	603.8	608.6	620.2	633.8	637.6
35°	579.7	586.4	600.0	615.4	620.2
37.5°	556.6	563.3	579.7	597.0	602.9
40°	532.4	540.1	557.5	577.8	585.5
42.5°	506.4	517.0	536.3	558.5	567.2
45°	480.4	490.0	514.1	539.2	548.8
47.5°	452.3	463.9	490.0	519.8	531.4
50°	422.5	436.9	466.9	499.7	512.2
52.5°	392.6	408.9	442.7	479.4	492.9
55°	363.6	379.1	419.5	459.1	473.6
57.5°	331.9	351.1	395.4	437.9	452.3
60°	299.0	320.3	371.3	415.7	431.1
62.5°	266.2	290.3	348.2	392.6	408.9
65°	233.4	260.4	321.2	368.5	384.8
67.5°	201.6	231.5	296.1	343.4	359.8
70°	165.0	202.5	269.1	315.4	331.9
72.5°	131.2	174.6	243.1	286.5	301.0
75°	101.3	147.6	214.1	253.7	259.4
77.5°	74.3	120.6	184.2	197.8	198.7
80°	50.1	96.5	140.9	138.8	140.9
82.5°	32.8	72.3	88.7	99.4	100.3
85°	19.3	42.5	52.1	57.9	58.8
87.5°	9.7	14.4	18.4	19.3	21.2
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)