

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: P734326

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734326
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-CP250-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

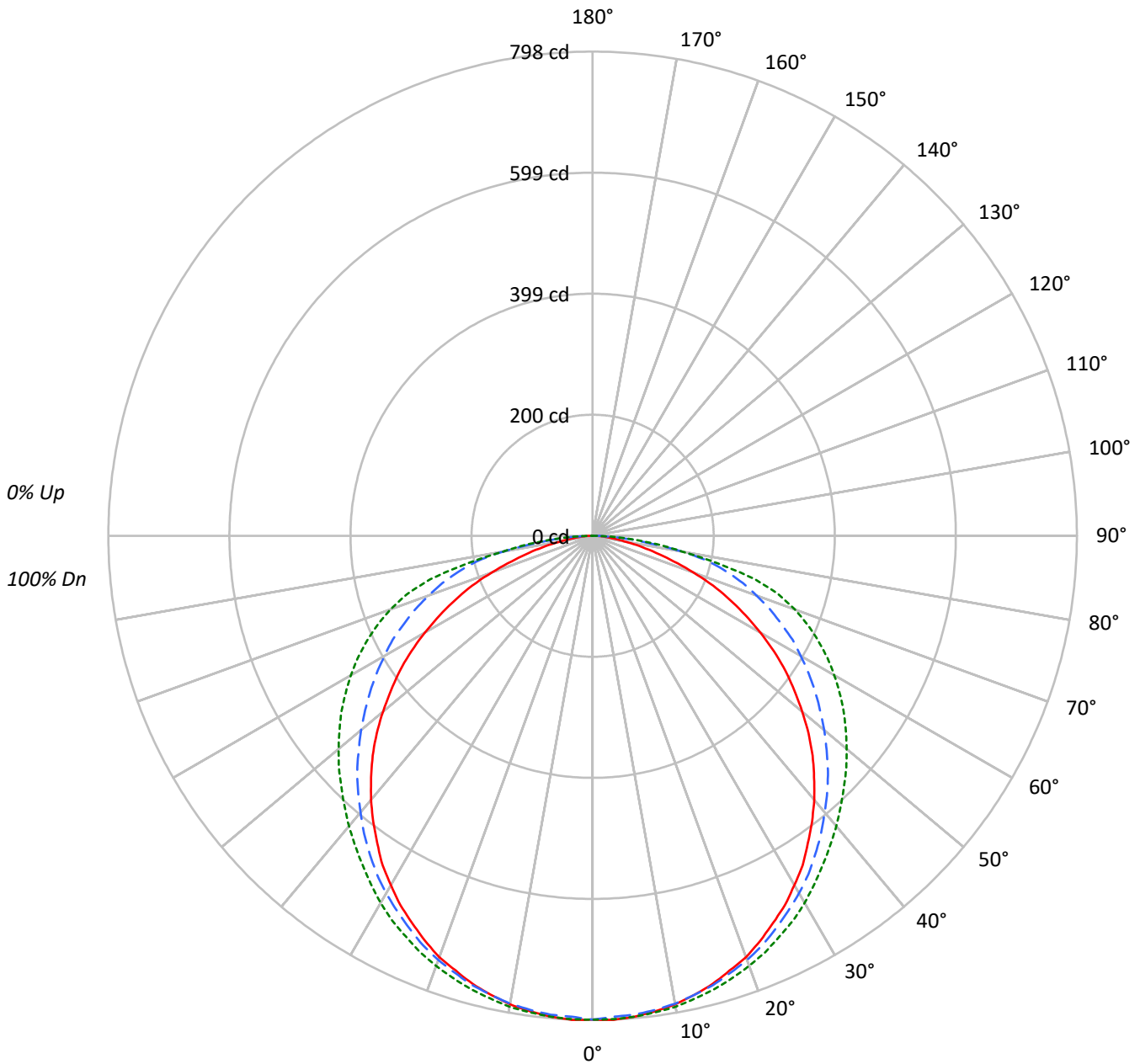
Lumens per Lamp: N/A
Luminaire Lumens: 2458.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1126	1126	1126
5°	1127	1122	1127
10°	1124	1122	1130
15°	1117	1120	1131
20°	1110	1117	1133
25°	1096	1112	1135
30°	1083	1109	1139
35°	1066	1103	1140
40°	1046	1096	1151
45°	1023	1095	1169
50°	990	1094	1200
55°	954	1101	1243
60°	900	1118	1298
65°	832	1144	1371
70°	726	1185	1461
75°	589	1245	1509
80°	434	1222	1222
85°	334	900	1015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.1
10°-20°	216.9	8.8
20°-30°	330.3	13.4
30°-40°	401.0	16.3
40°-50°	423.7	17.2
50°-60°	399.8	16.3
60°-70°	332.4	13.5
70°-80°	218.7	8.9
80°-90°	59.6	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°	622.8	25.3
0°-40°	1023.8	41.7
0°-60°	1847.3	75.2
0°-90°	2458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	796	796	792	796	796	76
15°	765	766	767	774	774	216
25°	704	708	714	726	729	325
35°	618	626	640	656	662	387
45°	512	523	548	575	586	395
55°	388	404	448	490	505	346
65°	249	278	343	393	410	246
75°	108	157	228	271	277	116
85°	21	45	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°	797.5	797.5	797.5	797.5	797.5
2.5°	798.5	797.5	793.3	797.5	797.5
5°	795.5	795.5	792.3	795.5	795.5
7.5°	790.3	790.3	788.2	792.3	792.3
10°	784.2	784.2	783.0	788.2	788.2
12.5°	774.9	775.9	774.9	781.0	781.0
15°	764.6	765.6	766.6	773.9	773.9
17.5°	751.2	753.2	755.3	763.6	764.6
20°	738.9	739.9	744.0	753.2	754.3
22.5°	722.3	725.5	730.6	739.9	742.9
25°	703.9	707.9	714.2	726.5	728.6
27.5°	686.3	689.5	697.6	711.0	715.2
30°	664.8	669.9	680.2	693.6	698.7
32.5°	644.2	649.3	661.6	676.1	680.2
35°	618.5	625.6	640.1	656.5	661.6
37.5°	593.8	600.9	618.5	636.9	643.2
40°	568.0	576.2	594.8	616.4	624.6
42.5°	540.2	551.5	572.2	595.8	605.1
45°	512.5	522.8	548.5	575.2	585.5
47.5°	482.6	494.9	522.8	554.6	566.9
50°	450.8	466.1	498.1	533.1	546.4
52.5°	418.8	436.2	472.3	511.5	525.8
55°	387.9	404.4	447.6	489.8	505.2
57.5°	354.0	374.5	421.9	467.2	482.6
60°	319.0	341.7	396.2	443.5	459.9
62.5°	284.0	309.7	371.5	418.8	436.2
65°	249.0	277.8	342.7	393.1	410.5
67.5°	215.1	247.0	315.9	366.4	383.8
70°	176.0	216.1	287.1	336.5	354.0
72.5°	140.0	186.3	259.4	305.7	321.1
75°	108.0	157.4	228.4	270.7	276.8
77.5°	79.3	128.7	196.5	211.0	212.0
80°	53.4	103.0	150.3	148.1	150.3
82.5°	35.0	77.1	94.7	106.0	107.0
85°	20.6	45.3	55.6	61.7	62.7
87.5°	10.3	15.4	19.6	20.6	22.7
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)