

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: P734328

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734328
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-CP250-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

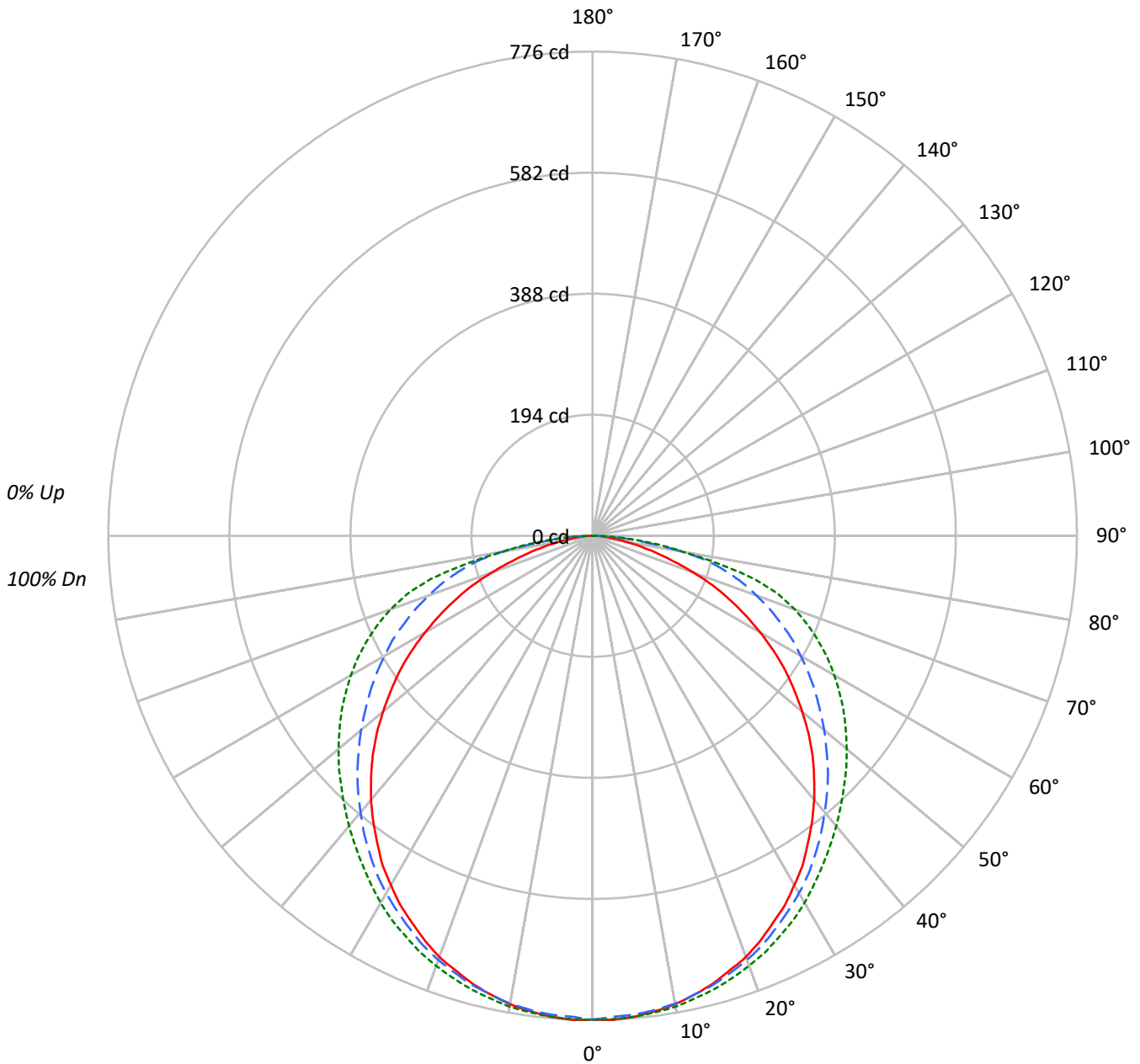
Lumens per Lamp: N/A
Luminaire Lumens: 2390.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1094	1094	1094
5°	1096	1091	1096
10°	1093	1091	1098
15°	1086	1089	1099
20°	1079	1086	1102
25°	1066	1081	1103
30°	1053	1078	1107
35°	1036	1072	1108
40°	1017	1066	1119
45°	995	1064	1136
50°	962	1063	1167
55°	928	1071	1209
60°	876	1087	1262
65°	809	1113	1333
70°	706	1152	1420
75°	573	1211	1467
80°	423	1187	1187
85°	324	876	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.1
10°-20°	210.9	8.8
20°-30°	321.1	13.4
30°-40°	389.9	16.3
40°-50°	412.0	17.2
50°-60°	388.7	16.3
60°-70°	323.2	13.5
70°-80°	212.7	8.9
80°-90°	58.0	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°	605.5	25.3
0°-40°	995.5	41.7
0°-60°	1796.2	75.2
0°-90°	2390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	774	774	770	774	774	73
15°	743	744	745	752	752	210
25°	684	688	694	706	708	316
35°	601	608	622	638	643	376
45°	498	508	533	559	569	384
55°	377	393	435	476	491	336
65°	242	270	333	382	399	239
75°	105	153	222	263	269	113
85°	20	44	54	60	61	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.5	775.5	775.5	775.5	775.5
2.5°	776.5	775.5	771.4	775.5	775.5
5°	773.5	773.5	770.4	773.5	773.5
7.5°	768.4	768.4	766.4	770.4	770.4
10°	762.5	762.5	761.4	766.4	766.4
12.5°	753.4	754.4	753.4	759.4	759.4
15°	743.4	744.4	745.4	752.5	752.5
17.5°	730.4	732.4	734.4	742.4	743.4
20°	718.4	719.4	723.4	732.4	733.4
22.5°	702.3	705.4	710.4	719.4	722.4
25°	684.4	688.4	694.4	706.4	708.4
27.5°	667.3	670.4	678.3	691.3	695.4
30°	646.4	651.4	661.4	674.4	679.3
32.5°	626.4	631.3	643.3	657.4	661.4
35°	601.4	608.3	622.4	638.4	643.3
37.5°	577.4	584.3	601.4	619.3	625.4
40°	552.2	560.3	578.4	599.4	607.3
42.5°	525.3	536.3	556.3	579.3	588.4
45°	498.3	508.3	533.3	559.3	569.3
47.5°	469.2	481.2	508.3	539.3	551.3
50°	438.3	453.3	484.3	518.3	531.3
52.5°	407.2	424.2	459.2	497.3	511.3
55°	377.2	393.2	435.2	476.3	491.2
57.5°	344.2	364.2	410.2	454.2	469.2
60°	310.2	332.2	385.2	431.2	447.2
62.5°	276.2	301.2	361.2	407.2	424.2
65°	242.2	270.1	333.2	382.2	399.2
67.5°	209.1	240.2	307.1	356.2	373.2
70°	171.1	210.1	279.2	327.2	344.2
72.5°	136.1	181.2	252.2	297.2	312.2
75°	105.1	153.1	222.1	263.2	269.1
77.5°	77.1	125.1	191.1	205.2	206.1
80°	52.0	100.1	146.1	144.0	146.1
82.5°	34.0	75.0	92.1	103.1	104.1
85°	20.0	44.1	54.1	60.0	61.0
87.5°	10.0	15.0	19.1	20.0	22.0
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)