

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: P734331

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734331
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-CP375-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

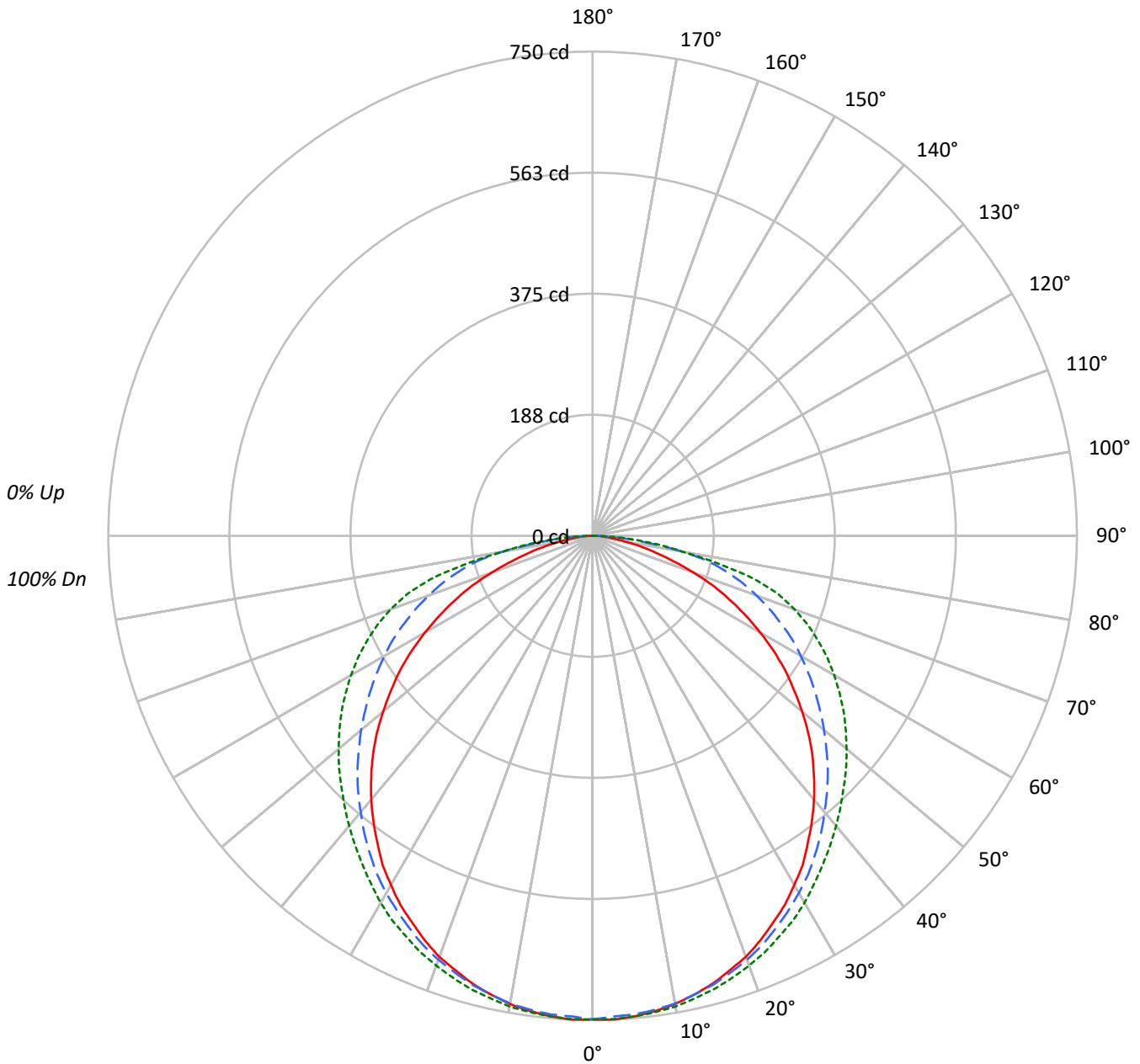
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1057	1057	1057
5°	1059	1054	1059
10°	1056	1054	1061
15°	1049	1052	1062
20°	1042	1050	1064
25°	1030	1045	1066
30°	1018	1041	1070
35°	1001	1036	1071
40°	983	1030	1081
45°	961	1028	1098
50°	930	1027	1127
55°	897	1034	1168
60°	846	1050	1219
65°	781	1075	1288
70°	682	1113	1372
75°	553	1170	1418
80°	408	1148	1148
85°	314	845	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.1
10°-20°	203.8	8.8
20°-30°	310.2	13.4
30°-40°	376.7	16.3
40°-50°	398.0	17.2
50°-60°	375.5	16.3
60°-70°	312.3	13.5
70°-80°	205.5	8.9
80°-90°	56.0	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°	585.0	25.3
0°-40°	961.7	41.7
0°-60°	1735.3	75.2
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	747	747	744	747	747	71
15°	718	719	720	727	727	203
25°	661	665	671	682	684	305
35°	581	588	601	617	622	364
45°	481	491	515	540	550	371
55°	364	380	420	460	475	325
65°	234	261	322	369	386	231
75°	102	148	215	254	260	109
85°	19	43	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°	749.2	749.2	749.2	749.2	749.2
2.5°	750.1	749.2	745.2	749.2	749.2
5°	747.3	747.3	744.3	747.3	747.3
7.5°	742.4	742.4	740.5	744.3	744.3
10°	736.6	736.6	735.6	740.5	740.5
12.5°	727.9	728.9	727.9	733.6	733.6
15°	718.2	719.2	720.1	727.0	727.0
17.5°	705.7	707.6	709.5	717.3	718.2
20°	694.1	695.0	698.9	707.6	708.5
22.5°	678.5	681.5	686.3	695.0	697.9
25°	661.2	665.0	670.9	682.5	684.4
27.5°	644.7	647.7	655.3	667.9	671.8
30°	624.5	629.3	639.0	651.5	656.3
32.5°	605.1	609.9	621.5	635.1	639.0
35°	581.0	587.7	601.3	616.7	621.5
37.5°	557.8	564.5	581.0	598.3	604.2
40°	533.5	541.3	558.8	579.1	586.7
42.5°	507.5	518.1	537.5	559.7	568.4
45°	481.4	491.1	515.2	540.3	550.0
47.5°	453.3	464.9	491.1	521.0	532.6
50°	423.4	437.9	467.9	500.8	513.3
52.5°	393.4	409.8	443.6	480.4	494.0
55°	364.4	379.9	420.4	460.1	474.6
57.5°	332.6	351.8	396.3	438.8	453.3
60°	299.7	321.0	372.1	416.6	432.0
62.5°	266.8	291.0	349.0	393.4	409.8
65°	233.9	261.0	321.9	369.3	385.7
67.5°	202.0	232.0	296.7	344.2	360.5
70°	165.3	203.0	269.7	316.1	332.6
72.5°	131.5	175.0	243.6	287.1	301.6
75°	101.5	147.9	214.6	254.3	260.0
77.5°	74.5	120.9	184.6	198.2	199.2
80°	50.2	96.7	141.2	139.1	141.2
82.5°	32.9	72.4	88.9	99.6	100.5
85°	19.4	42.6	52.2	58.0	58.9
87.5°	9.7	14.5	18.4	19.4	21.3
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)