

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: P734324

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734324
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-CP187-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

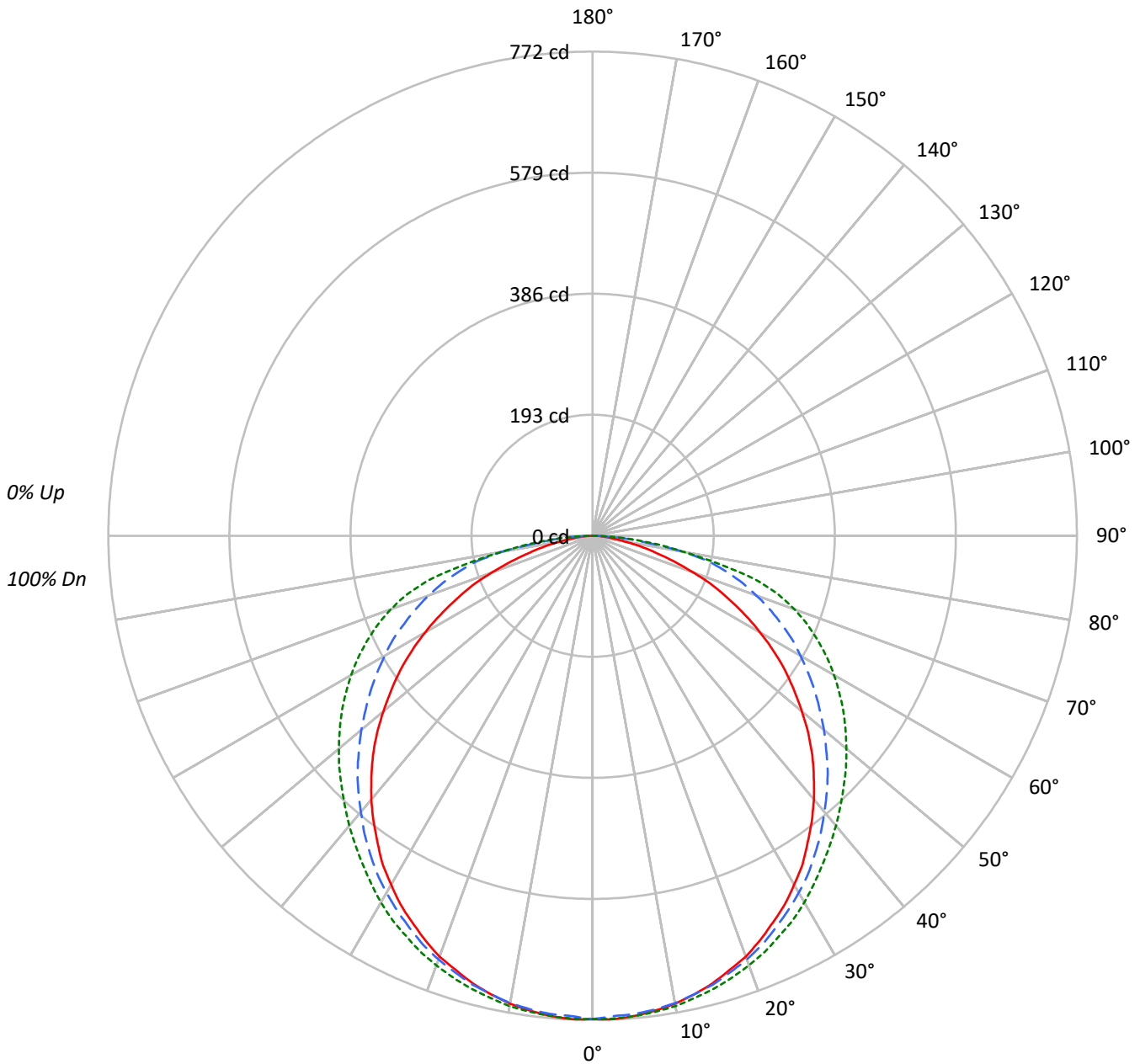
Lumens per Lamp: N/A
Luminaire Lumens: 2375.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1088	1088	1088
5°	1089	1085	1089
10°	1086	1084	1091
15°	1079	1082	1092
20°	1072	1080	1095
25°	1059	1075	1096
30°	1047	1071	1100
35°	1030	1066	1101
40°	1011	1059	1112
45°	988	1058	1129
50°	956	1057	1159
55°	922	1064	1201
60°	870	1081	1254
65°	803	1106	1325
70°	702	1145	1412
75°	569	1203	1458
80°	419	1180	1180
85°	322	870	981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.1
10°-20°	209.6	8.8
20°-30°	319.1	13.4
30°-40°	387.5	16.3
40°-50°	409.4	17.2
50°-60°	386.3	16.3
60°-70°	321.2	13.5
70°-80°	211.3	8.9
80°-90°	57.6	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°	601.7	25.3
0°-40°	989.2	41.7
0°-60°	1784.9	75.2
0°-90°	2375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	769	769	766	769	769	73
15°	739	740	741	748	748	208
25°	680	684	690	702	704	314
35°	598	604	618	634	639	374
45°	495	505	530	556	566	381
55°	375	391	432	473	488	334
65°	241	268	331	380	397	238
75°	104	152	221	262	267	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°	770.6	770.6	770.6	770.6	770.6
2.5°	771.6	770.6	766.5	770.6	770.6
5°	768.6	768.6	765.6	768.6	768.6
7.5°	763.6	763.6	761.6	765.6	765.6
10°	757.7	757.7	756.6	761.6	761.6
12.5°	748.7	749.7	748.7	754.6	754.6
15°	738.8	739.7	740.7	747.7	747.7
17.5°	725.8	727.8	729.8	737.8	738.8
20°	713.9	714.9	718.8	727.8	728.8
22.5°	697.9	701.0	705.9	714.9	717.8
25°	680.1	684.0	690.1	702.0	704.0
27.5°	663.1	666.2	674.1	687.0	691.0
30°	642.4	647.3	657.2	670.1	675.1
32.5°	622.4	627.4	639.3	653.3	657.2
35°	597.6	604.5	618.5	634.4	639.3
37.5°	573.7	580.6	597.6	615.4	621.4
40°	548.8	556.8	574.7	595.6	603.5
42.5°	522.0	532.9	552.8	575.7	584.7
45°	495.2	505.1	530.0	555.8	565.7
47.5°	466.3	478.2	505.1	535.9	547.8
50°	435.5	450.4	481.3	515.1	528.0
52.5°	404.7	421.5	456.3	494.2	508.1
55°	374.8	390.8	432.5	473.3	488.2
57.5°	342.1	361.9	407.6	451.4	466.3
60°	308.3	330.2	382.8	428.5	444.4
62.5°	274.5	299.3	358.9	404.7	421.5
65°	240.6	268.4	331.1	379.8	396.7
67.5°	207.8	238.7	305.2	354.0	370.9
70°	170.1	208.8	277.4	325.1	342.1
72.5°	135.3	180.0	250.6	295.4	310.2
75°	104.4	152.1	220.7	261.5	267.4
77.5°	76.6	124.3	189.9	203.9	204.9
80°	51.6	99.5	145.2	143.1	145.2
82.5°	33.8	74.5	91.5	102.4	103.4
85°	19.9	43.8	53.7	59.6	60.6
87.5°	10.0	14.9	18.9	19.9	21.9
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)