

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: P734321

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734321
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-CP187-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

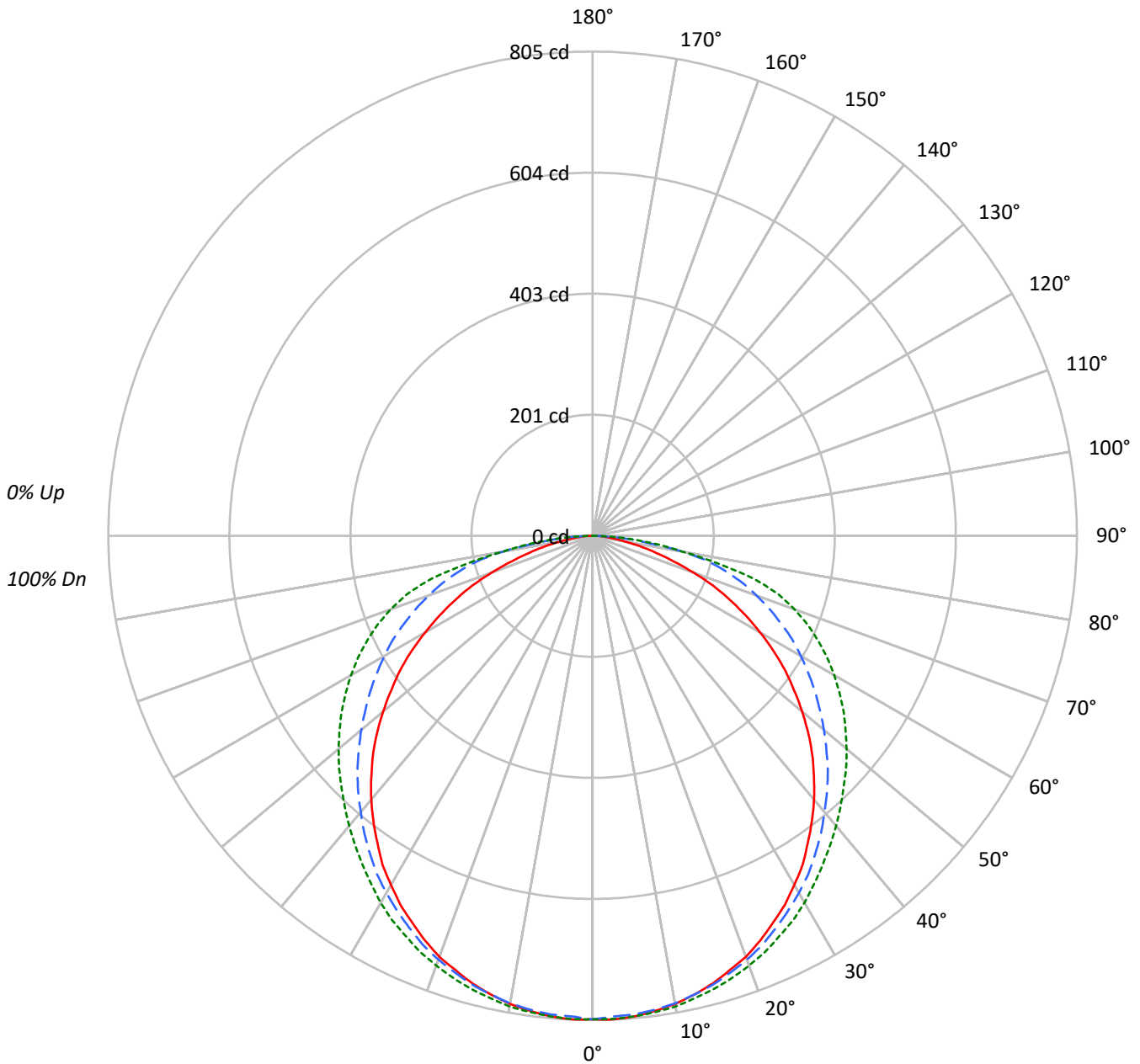
Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1135	1135	1135
5°	1136	1132	1136
10°	1133	1131	1139
15°	1126	1129	1140
20°	1119	1126	1142
25°	1105	1121	1144
30°	1092	1117	1148
35°	1074	1112	1149
40°	1055	1105	1160
45°	1031	1104	1178
50°	998	1102	1210
55°	962	1110	1253
60°	908	1127	1309
65°	839	1154	1382
70°	732	1194	1473
75°	594	1256	1521
80°	438	1231	1231
85°	337	908	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.1
10°-20°	218.7	8.8
20°-30°	333.0	13.4
30°-40°	404.3	16.3
40°-50°	427.1	17.2
50°-60°	403.0	16.3
60°-70°	335.1	13.5
70°-80°	220.5	8.9
80°-90°	60.1	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°	627.8	25.3
0°-40°	1032.1	41.7
0°-60°	1862.3	75.2
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	802	802	799	802	802	76
15°	771	772	773	780	780	217
25°	710	714	720	732	734	327
35°	624	631	645	662	667	390
45°	517	527	553	580	590	398
55°	391	408	451	494	509	348
65°	251	280	346	396	414	248
75°	109	159	230	273	279	117
85°	21	46	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°	804.0	804.0	804.0	804.0	804.0
2.5°	805.0	804.0	799.8	804.0	804.0
5°	802.0	802.0	798.8	802.0	802.0
7.5°	796.7	796.7	794.7	798.8	798.8
10°	790.5	790.5	789.4	794.7	794.7
12.5°	781.2	782.2	781.2	787.3	787.3
15°	770.8	771.8	772.8	780.2	780.2
17.5°	757.3	759.4	761.4	769.8	770.8
20°	744.9	745.9	750.0	759.4	760.4
22.5°	728.2	731.4	736.5	745.9	749.0
25°	709.6	713.7	720.0	732.4	734.5
27.5°	691.9	695.1	703.3	716.8	721.0
30°	670.2	675.3	685.7	699.2	704.3
32.5°	649.4	654.6	667.0	681.6	685.7
35°	623.5	630.7	645.3	661.9	667.0
37.5°	598.6	605.8	623.5	642.1	648.4
40°	572.6	580.9	599.6	621.5	629.7
42.5°	544.6	556.0	576.8	600.7	610.0
45°	516.6	527.0	552.9	579.9	590.3
47.5°	486.5	498.9	527.0	559.1	571.6
50°	454.4	469.9	502.1	537.4	550.9
52.5°	422.2	439.8	476.1	515.6	530.1
55°	391.0	407.7	451.2	493.8	509.3
57.5°	356.9	377.6	425.3	471.0	486.5
60°	321.6	344.5	399.4	447.1	463.7
62.5°	286.4	312.3	374.5	422.2	439.8
65°	251.1	280.1	345.5	396.3	413.9
67.5°	216.8	249.0	318.4	369.4	386.9
70°	177.4	217.8	289.4	339.2	356.9
72.5°	141.1	187.8	261.5	308.2	323.7
75°	108.9	158.7	230.3	272.9	279.0
77.5°	79.9	129.7	198.1	212.7	213.7
80°	53.9	103.8	151.5	149.3	151.5
82.5°	35.3	77.7	95.5	106.9	107.9
85°	20.8	45.7	56.1	62.2	63.2
87.5°	10.4	15.5	19.8	20.8	22.8
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)