

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: P734341

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

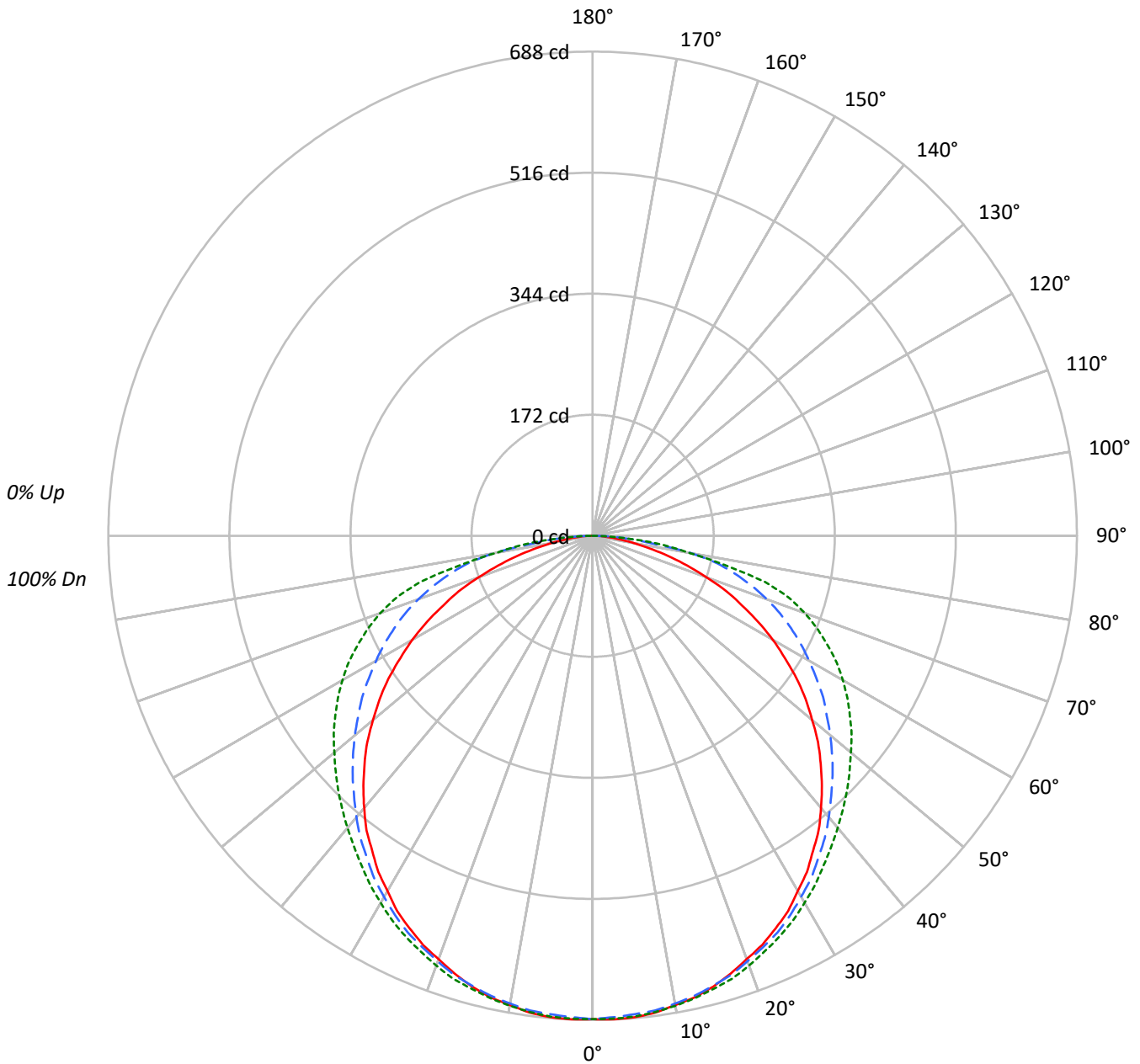
Lumens per Lamp: N/A
Luminaire Lumens: 2184.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P734341

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P734341

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K

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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	969	969	969
5°	973	967	972
10°	970	967	972
15°	969	967	973
20°	962	966	976
25°	958	968	978
30°	950	966	982
35°	941	963	986
40°	930	962	998
45°	915	962	1021
50°	894	968	1051
55°	872	984	1098
60°	835	1003	1159
65°	781	1038	1230
70°	711	1086	1323
75°	603	1146	1382
80°	475	1153	1118
85°	351	878	981



TEST NUMBER: P734341

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	187.5	8.6
20°-30°	286.7	13.1
30°-40°	350.5	16.0
40°-50°	373.6	17.1
50°-60°	357.2	16.4
60°-70°	302.6	13.9
70°-80°	203.4	9.3
80°-90°	57.4	2.6
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°	539.4	24.7
0°-40°	889.9	40.7
0°-60°	1620.7	74.2
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	687	686	682	686	686	65
15°	663	663	662	667	666	187
25°	615	618	622	627	628	284
35°	546	550	559	570	572	342
45°	458	466	482	503	511	353
55°	354	367	400	431	446	315
65°	234	258	311	352	368	232
75°	110	151	210	246	254	118
85°	22	44	54	58	61	27
90°	0	0	0	0	0	



TEST NUMBER: P734341

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA125-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.8	686.8	686.8	686.8	686.8
2.5°	687.9	687.9	684.6	686.8	686.8
5°	686.8	685.8	682.5	685.8	685.8
7.5°	683.5	682.5	680.3	683.5	682.5
10°	677.0	677.0	674.9	678.2	678.2
12.5°	671.7	670.6	669.4	673.8	672.7
15°	663.0	663.0	661.9	667.3	666.2
17.5°	652.2	653.2	654.3	658.6	659.8
20°	640.2	642.4	643.4	650.0	650.0
22.5°	629.3	630.5	632.6	639.1	639.1
25°	615.4	617.5	621.8	627.2	628.3
27.5°	601.3	602.3	607.8	615.4	616.4
30°	582.8	586.1	592.5	601.3	602.3
32.5°	566.5	569.8	577.4	586.1	588.2
35°	546.0	550.3	558.9	569.8	572.0
37.5°	527.6	530.8	541.7	553.6	556.8
40°	504.9	511.3	522.1	536.2	541.7
42.5°	482.1	488.5	501.6	520.0	526.5
45°	458.2	465.8	482.1	502.6	511.3
47.5°	434.4	443.1	461.5	485.3	495.1
50°	407.3	418.1	440.9	468.0	478.9
52.5°	381.3	394.3	419.3	449.6	463.7
55°	354.2	367.2	399.7	431.2	446.3
57.5°	323.9	341.2	377.0	412.8	429.0
60°	295.7	311.9	355.3	394.3	410.5
62.5°	265.4	287.1	333.6	374.8	391.1
65°	233.9	257.8	310.9	352.0	368.4
67.5°	205.9	231.9	288.2	329.3	345.6
70°	172.3	204.7	263.2	304.4	320.7
72.5°	140.8	176.6	237.2	277.3	292.5
75°	110.5	150.6	210.2	246.0	253.5
77.5°	82.3	124.6	182.0	197.1	191.8
80°	58.5	99.7	141.9	134.3	137.5
82.5°	37.9	75.9	87.8	99.7	102.9
85°	21.7	44.4	54.2	58.5	60.6
87.5°	9.8	16.2	21.7	21.7	20.6
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)