

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: P734305

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-B2750-W2D-CP250-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

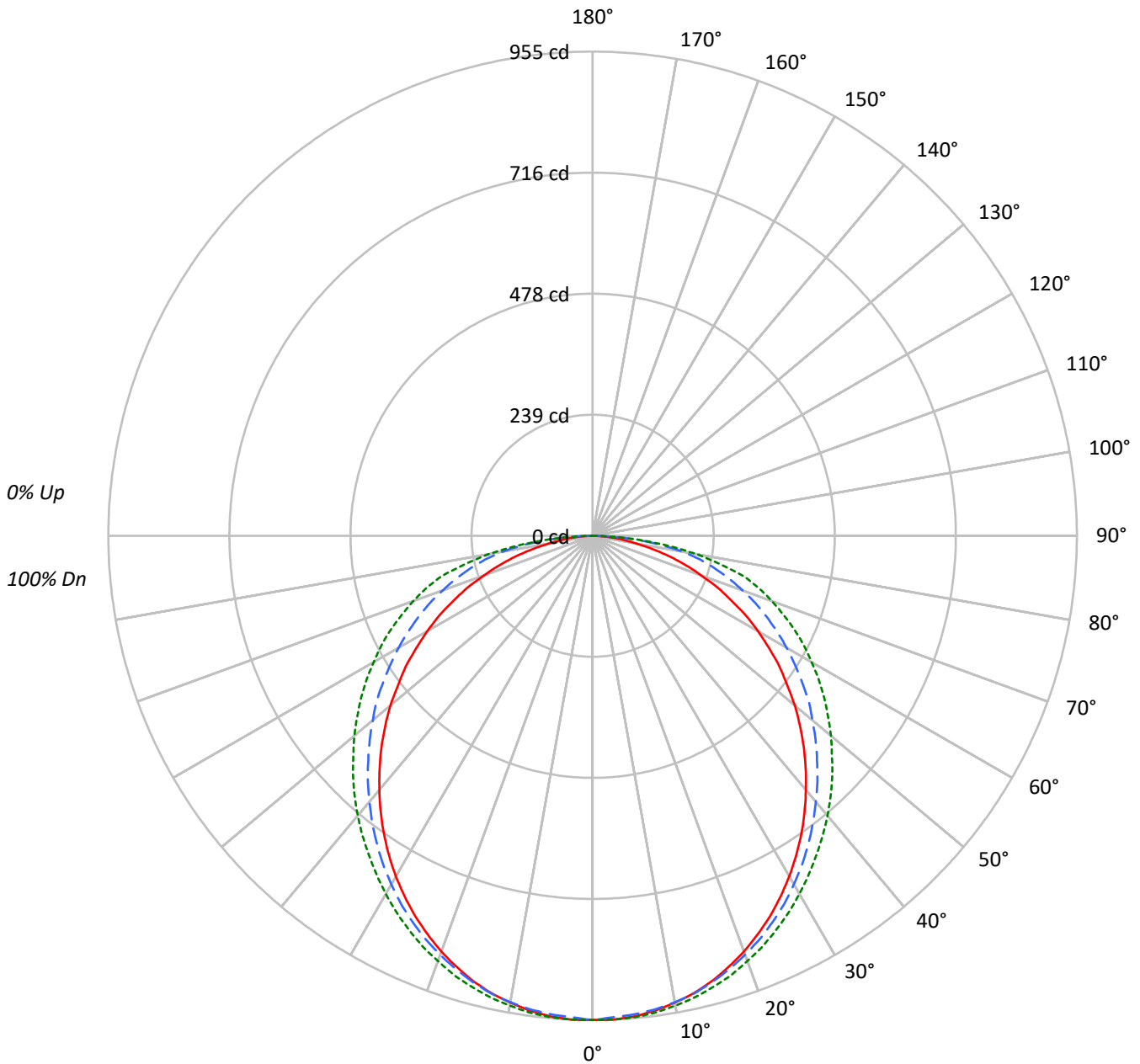
Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734305

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-5000K

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	100	96	92	96	93	89	92	89	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	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1348	1348	1348
5°	1348	1342	1351
10°	1340	1339	1348
15°	1329	1332	1346
20°	1311	1321	1340
25°	1289	1309	1335
30°	1264	1294	1329
35°	1237	1278	1325
40°	1205	1261	1328
45°	1175	1249	1334
50°	1143	1243	1347
55°	1108	1241	1371
60°	1064	1246	1407
65°	1008	1265	1468
70°	936	1297	1552
75°	854	1362	1682
80°	702	1466	1682
85°	538	1352	1446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.2
10°-20°	257.9	9.1
20°-30°	388.1	13.6
30°-40°	465.1	16.3
40°-50°	484.7	17.0
50°-60°	451.0	15.9
60°-70°	371.4	13.1
70°-80°	252.9	8.9
80°-90°	83.5	2.9
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°	736.4	25.9
0°-40°	1201.5	42.2
0°-60°	2137.1	75.1
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	951	951	948	952	953	90
15°	910	911	912	920	921	256
25°	828	832	840	854	857	381
35°	718	726	742	762	769	449
45°	589	601	626	657	668	454
55°	450	465	504	544	557	401
65°	302	328	379	423	440	300
75°	157	192	250	294	308	165
85°	33	64	84	89	89	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.2	955.2	955.2	955.2	955.2
2.5°	955.2	955.2	950.4	955.2	955.2
5°	951.4	951.4	947.6	952.4	953.3
7.5°	944.7	945.7	942.0	947.6	948.6
10°	935.2	936.2	934.3	940.0	940.9
12.5°	923.9	924.8	924.8	931.4	932.5
15°	909.6	910.6	911.5	920.1	921.0
17.5°	891.6	894.5	896.3	906.8	908.7
20°	872.6	875.5	879.3	890.6	892.5
22.5°	850.8	854.5	861.2	873.5	876.4
25°	828.0	831.8	840.3	854.5	857.4
27.5°	802.3	808.1	818.5	833.7	837.5
30°	775.8	781.4	793.8	809.9	815.6
32.5°	747.3	754.9	769.0	787.1	792.9
35°	717.8	726.4	741.6	761.5	769.0
37.5°	686.5	696.0	714.0	735.9	745.4
40°	654.3	665.6	684.6	710.2	720.6
42.5°	621.9	632.4	656.1	683.7	695.0
45°	588.7	601.0	625.8	657.0	668.5
47.5°	554.5	566.8	596.2	629.5	640.0
50°	520.4	532.7	565.9	601.0	613.4
52.5°	483.3	499.4	537.4	572.6	584.9
55°	450.1	465.2	504.2	544.1	557.3
57.5°	412.1	430.1	472.9	514.6	528.8
60°	377.0	396.0	441.5	484.2	498.5
62.5°	340.9	361.7	410.2	453.9	470.0
65°	301.9	327.5	378.8	423.4	439.6
67.5°	266.8	293.4	347.6	393.1	407.3
70°	226.9	259.2	314.3	359.9	376.1
72.5°	192.7	225.0	282.9	327.5	343.7
75°	156.7	191.8	249.7	294.3	308.5
77.5°	120.6	159.5	217.4	251.7	256.3
80°	86.4	127.3	180.4	200.4	207.0
82.5°	60.8	97.8	133.0	146.3	150.0
85°	33.2	64.5	83.5	89.3	89.3
87.5°	14.2	27.6	33.2	34.2	35.1
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)