

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: P734039

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734039
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: 24FCZ2-30HE-B2750-W2D-CA08-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

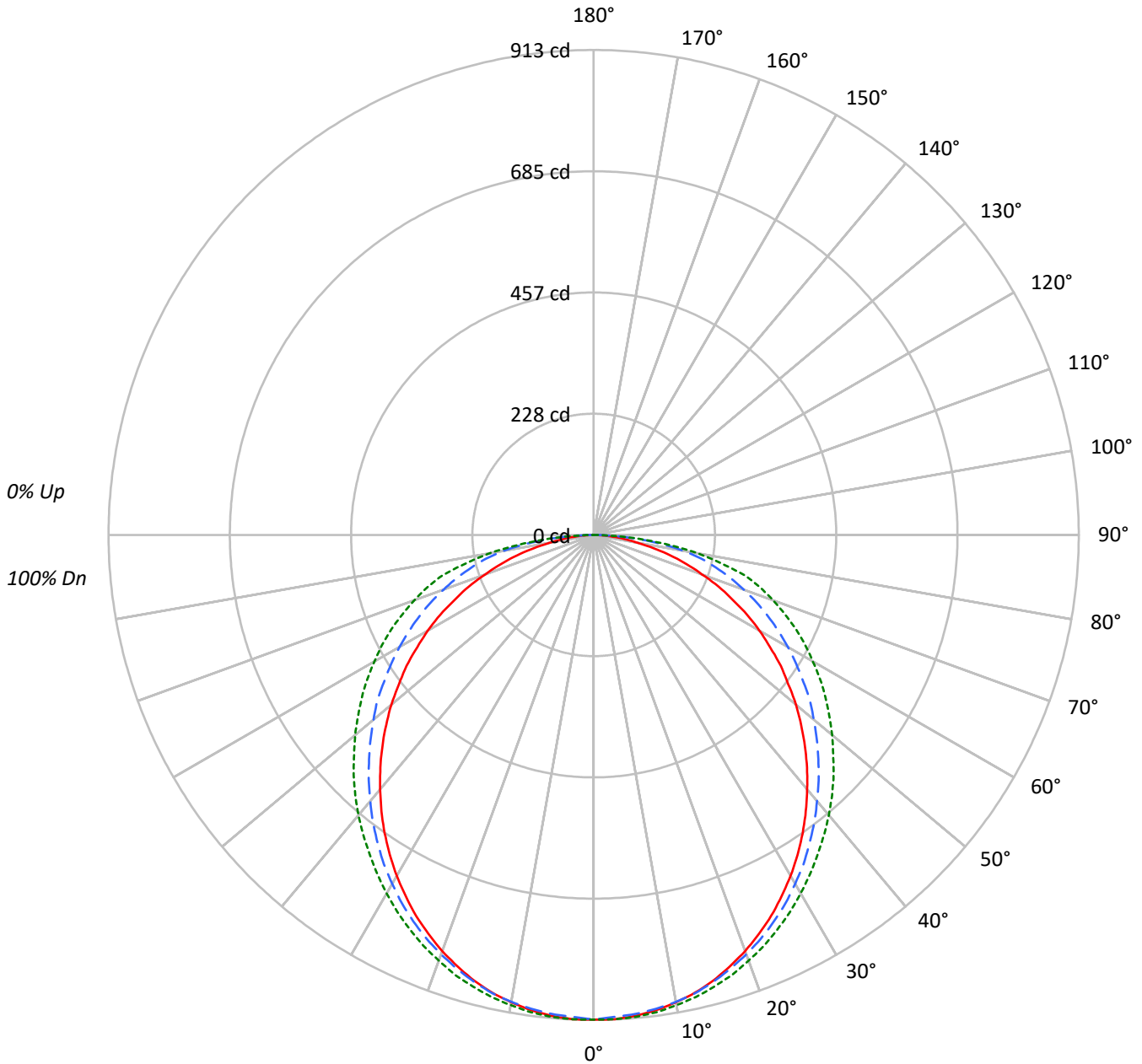
Lumens per Lamp: N/A
Luminaire Lumens: 2718.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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

TEST NUMBER: P734039

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA08-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P734039

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA08-4000K

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°	1288	1288	1288
5°	1288	1283	1290
10°	1280	1279	1288
15°	1270	1272	1286
20°	1252	1262	1281
25°	1232	1250	1276
30°	1208	1236	1270
35°	1181	1221	1266
40°	1152	1205	1268
45°	1123	1193	1275
50°	1091	1187	1287
55°	1058	1185	1310
60°	1016	1191	1344
65°	963	1209	1402
70°	895	1239	1483
75°	816	1301	1608
80°	671	1400	1608
85°	513	1292	1381



TEST NUMBER: P734039

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA08-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.2
10°-20°	246.4	9.1
20°-30°	370.8	13.6
30°-40°	444.3	16.3
40°-50°	463.1	17.0
50°-60°	430.8	15.9
60°-70°	354.8	13.1
70°-80°	241.6	8.9
80°-90°	79.8	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°	703.5	25.9
0°-40°	1147.8	42.2
0°-60°	2041.7	75.1
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	909	909	905	910	911	86
15°	869	870	871	879	880	245
25°	791	795	803	816	819	364
35°	686	694	708	728	735	429
45°	562	574	598	628	639	434
55°	430	444	482	520	532	383
65°	288	313	362	404	420	286
75°	150	183	239	281	295	158
85°	32	62	80	85	85	39
90°	0	0	0	0	0	



TEST NUMBER: P734039

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA08-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.6	912.6	912.6	912.6	912.6
2.5°	912.6	912.6	908.0	912.6	912.6
5°	908.9	908.9	905.3	909.9	910.7
7.5°	902.5	903.5	899.9	905.3	906.3
10°	893.5	894.5	892.6	898.1	898.9
12.5°	882.6	883.5	883.5	889.9	890.8
15°	869.0	870.0	870.8	879.0	879.9
17.5°	851.8	854.5	856.3	866.4	868.1
20°	833.7	836.4	840.0	850.8	852.7
22.5°	812.8	816.4	822.7	834.5	837.3
25°	791.0	794.6	802.8	816.4	819.1
27.5°	766.5	772.0	781.9	796.5	800.1
30°	741.2	746.5	758.3	773.7	779.2
32.5°	713.9	721.2	734.7	752.0	757.5
35°	685.7	693.9	708.5	727.5	734.7
37.5°	655.9	665.0	682.1	703.0	712.1
40°	625.1	635.9	654.0	678.5	688.5
42.5°	594.1	604.2	626.8	653.2	664.0
45°	562.4	574.2	597.8	627.7	638.6
47.5°	529.7	541.5	569.6	601.4	611.4
50°	497.1	508.9	540.7	574.2	586.0
52.5°	461.7	477.1	513.4	547.0	558.8
55°	430.0	444.4	481.7	519.8	532.5
57.5°	393.7	410.9	451.8	491.7	505.2
60°	360.1	378.3	421.8	462.6	476.3
62.5°	325.7	345.6	391.8	433.6	449.0
65°	288.4	312.9	361.9	404.5	419.9
67.5°	254.9	280.3	332.0	375.6	389.1
70°	216.8	247.6	300.2	343.9	359.3
72.5°	184.1	214.9	270.3	312.9	328.3
75°	149.7	183.2	238.6	281.2	294.8
77.5°	115.2	152.4	207.7	240.4	244.9
80°	82.5	121.6	172.3	191.4	197.8
82.5°	58.1	93.5	127.0	139.7	143.3
85°	31.7	61.7	79.8	85.3	85.3
87.5°	13.6	26.3	31.7	32.7	33.6
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)