

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: P734135

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

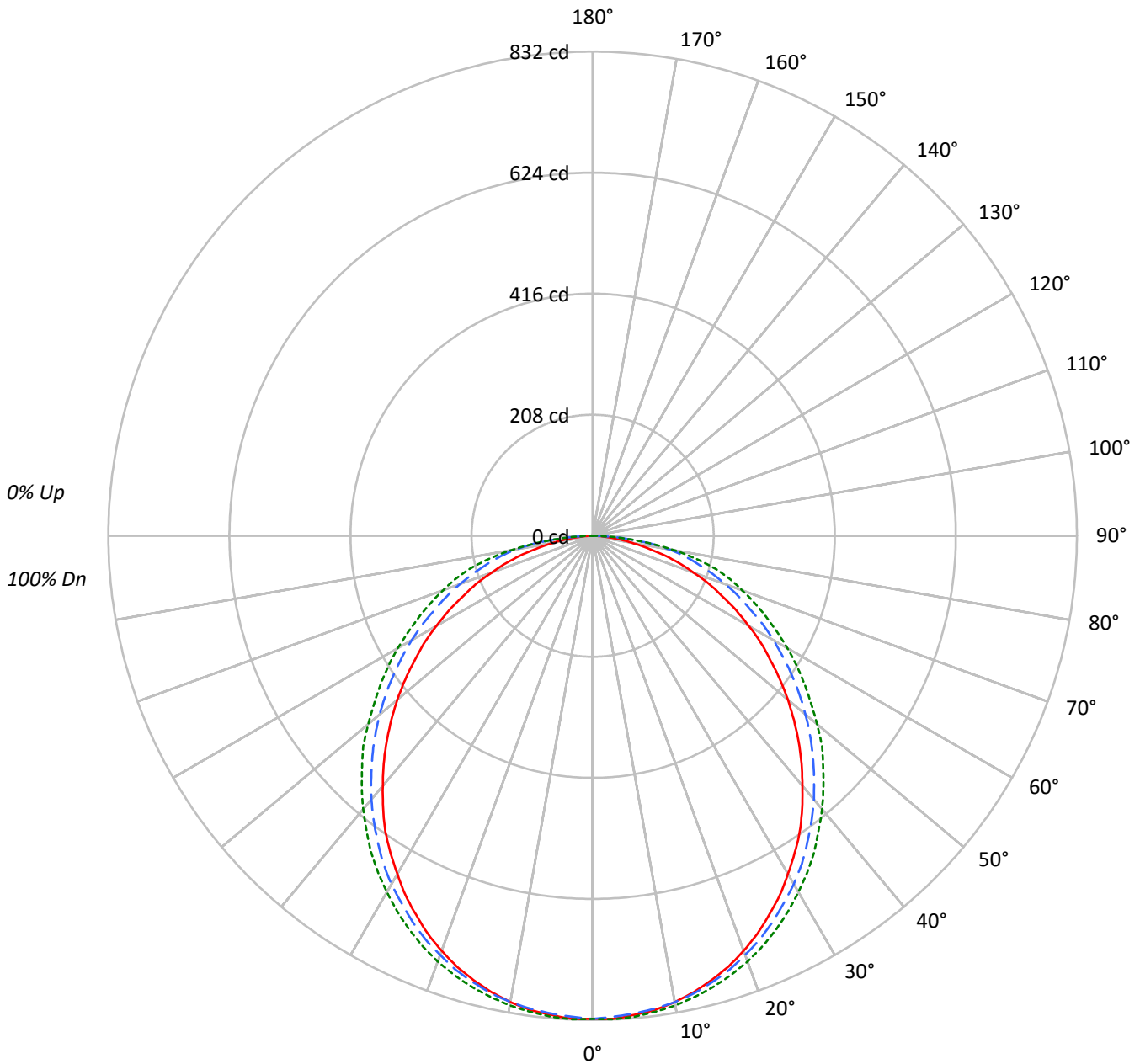
Lumens per Lamp: N/A
Luminaire Lumens: 2363.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734135

CATALOG NUMBER: 24FCZ2-30HE-S-B2750-W2D-CP375-5000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1172	1172	1172
5°	1171	1168	1175
10°	1166	1166	1175
15°	1155	1160	1172
20°	1140	1151	1169
25°	1119	1140	1162
30°	1094	1127	1152
35°	1069	1108	1143
40°	1033	1090	1130
45°	999	1068	1118
50°	961	1048	1104
55°	918	1029	1093
60°	875	1012	1091
65°	820	995	1098
70°	759	1001	1127
75°	679	1019	1191
80°	549	1079	1165
85°	413	947	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.3
10°-20°	224.6	9.5
20°-30°	337.6	14.3
30°-40°	402.1	17.0
40°-50°	411.5	17.4
50°-60°	370.5	15.7
60°-70°	290.9	12.3
70°-80°	188.8	8.0
80°-90°	58.4	2.5
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°	640.7	27.1
0°-40°	1042.8	44.1
0°-60°	1824.8	77.2
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	826	828	824	829	829	79
15°	790	793	794	801	802	223
25°	718	724	732	744	746	331
35°	621	628	643	659	664	387
45°	501	513	535	555	560	386
55°	373	390	418	440	444	334
65°	245	264	298	323	329	244
75°	125	149	187	212	218	132
85°	26	47	58	57	57	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.2	830.2	830.2	830.2	830.2
2.5°	830.9	830.9	827.1	830.9	831.6
5°	826.4	827.9	824.1	828.6	829.4
7.5°	821.9	821.9	819.6	824.1	824.9
10°	813.6	814.4	813.6	818.9	819.6
12.5°	803.1	804.6	805.4	810.6	811.4
15°	790.4	792.6	794.1	800.9	802.4
17.5°	776.1	778.4	782.1	789.6	791.1
20°	758.8	761.8	766.3	776.1	778.4
22.5°	740.1	743.1	750.6	759.5	763.3
25°	718.3	724.3	731.8	743.8	746.1
27.5°	696.5	701.8	711.5	724.3	727.4
30°	671.0	679.2	691.3	704.0	707.0
32.5°	646.2	654.5	668.8	682.3	686.0
35°	620.7	628.2	643.3	659.0	663.5
37.5°	591.4	601.2	617.7	633.5	638.0
40°	560.7	572.7	591.4	608.0	613.2
42.5°	531.4	544.1	562.9	580.9	586.9
45°	500.6	512.7	535.2	555.4	560.0
47.5°	469.1	482.6	506.6	526.9	534.4
50°	437.6	451.9	477.4	498.4	502.9
52.5°	406.0	421.1	448.1	470.6	472.9
55°	373.0	389.6	418.1	439.9	444.4
57.5°	343.0	357.3	388.0	410.6	415.8
60°	310.0	325.7	358.7	379.8	386.5
62.5°	278.4	295.0	329.5	350.5	356.5
65°	245.4	264.2	298.0	322.8	328.7
67.5°	216.9	234.9	270.9	295.0	301.0
70°	183.9	204.2	242.5	267.2	273.2
72.5°	155.4	176.3	214.7	238.7	247.7
75°	124.6	148.6	186.9	212.4	218.4
77.5°	94.6	122.4	161.3	180.9	180.9
80°	67.6	96.9	132.8	141.9	143.3
82.5°	44.3	72.8	98.3	97.6	97.6
85°	25.5	47.3	58.5	57.1	57.1
87.5°	9.8	19.5	21.0	21.0	20.3
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)