

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: P733996

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733996
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: 24FCZ2-30-S-B2750-W2D-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

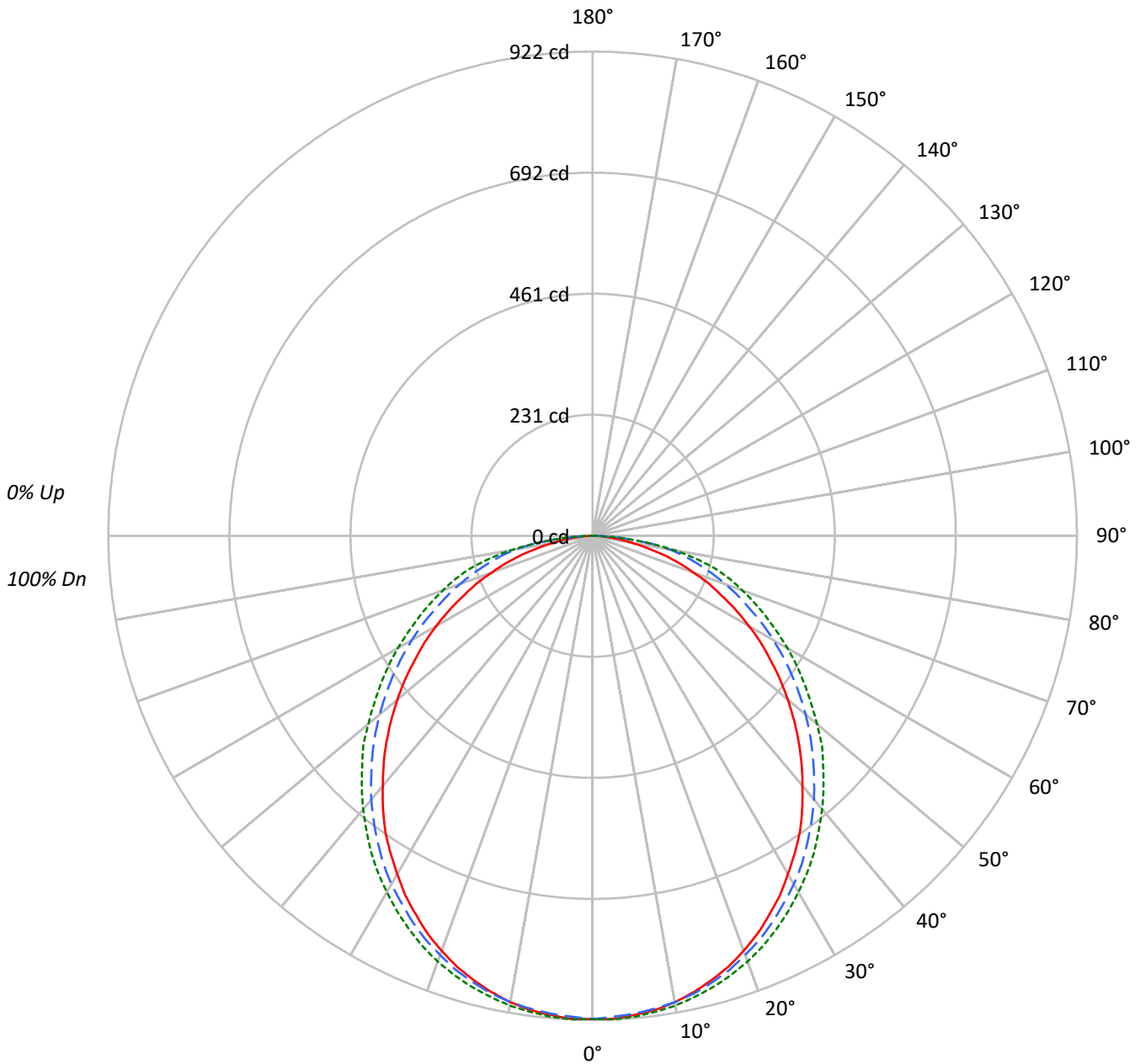
Lumens per Lamp: N/A
Luminaire Lumens: 2619.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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: P733996

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP187-2700K

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	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°	1299	1299	1299
5°	1298	1294	1302
10°	1292	1292	1302
15°	1280	1286	1299
20°	1263	1276	1296
25°	1240	1263	1288
30°	1212	1249	1277
35°	1185	1228	1267
40°	1145	1208	1252
45°	1108	1184	1239
50°	1065	1162	1224
55°	1017	1140	1212
60°	970	1122	1209
65°	908	1103	1217
70°	841	1109	1249
75°	753	1130	1320
80°	609	1196	1291
85°	458	1049	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.3
10°-20°	248.9	9.5
20°-30°	374.1	14.3
30°-40°	445.6	17.0
40°-50°	456.1	17.4
50°-60°	410.6	15.7
60°-70°	322.5	12.3
70°-80°	209.3	8.0
80°-90°	64.7	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°	710.1	27.1
0°-40°	1155.8	44.1
0°-60°	2022.5	77.2
0°-90°	2619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	916	918	913	918	919	87
15°	876	878	880	888	889	247
25°	796	803	811	824	827	367
35°	688	696	713	730	735	429
45°	555	568	593	616	621	428
55°	414	432	463	488	492	371
65°	272	293	330	358	364	271
75°	138	165	207	235	242	146
85°	28	52	65	63	63	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.1	920.1	920.1	920.1	920.1
2.5°	920.9	920.9	916.7	920.9	921.7
5°	915.9	917.6	913.4	918.4	919.2
7.5°	910.9	910.9	908.4	913.4	914.3
10°	901.8	902.6	901.8	907.6	908.4
12.5°	890.1	891.7	892.7	898.5	899.3
15°	876.0	878.5	880.1	887.6	889.3
17.5°	860.2	862.7	866.8	875.1	876.8
20°	841.0	844.3	849.4	860.2	862.7
22.5°	820.3	823.6	831.9	841.8	846.0
25°	796.1	802.7	811.1	824.4	826.9
27.5°	772.0	777.8	788.6	802.7	806.2
30°	743.7	752.8	766.2	780.3	783.6
32.5°	716.2	725.4	741.2	756.2	760.3
35°	688.0	696.3	712.9	730.4	735.4
37.5°	655.5	666.3	684.7	702.1	707.1
40°	621.4	634.8	655.5	673.8	679.7
42.5°	589.0	603.1	623.9	643.9	650.5
45°	554.9	568.2	593.2	615.6	620.6
47.5°	519.9	534.9	561.5	583.9	592.3
50°	485.0	500.9	529.1	552.4	557.4
52.5°	450.0	466.7	496.6	521.6	524.1
55°	413.5	431.8	463.4	487.5	492.5
57.5°	380.2	396.0	430.1	455.0	460.9
60°	343.6	361.0	397.6	421.0	428.4
62.5°	308.6	327.0	365.2	388.5	395.1
65°	272.0	292.9	330.3	357.7	364.3
67.5°	240.5	260.4	300.3	327.0	333.6
70°	203.8	226.3	268.7	296.2	302.8
72.5°	172.2	195.4	237.9	264.5	274.5
75°	138.1	164.7	207.2	235.4	242.1
77.5°	104.8	135.6	178.8	200.5	200.5
80°	74.9	107.3	147.2	157.3	158.9
82.5°	49.1	80.7	109.0	108.1	108.1
85°	28.3	52.4	64.8	63.2	63.2
87.5°	10.8	21.6	23.3	23.3	22.5
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)