

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: P734071

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-HRP-B2750-W2D-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

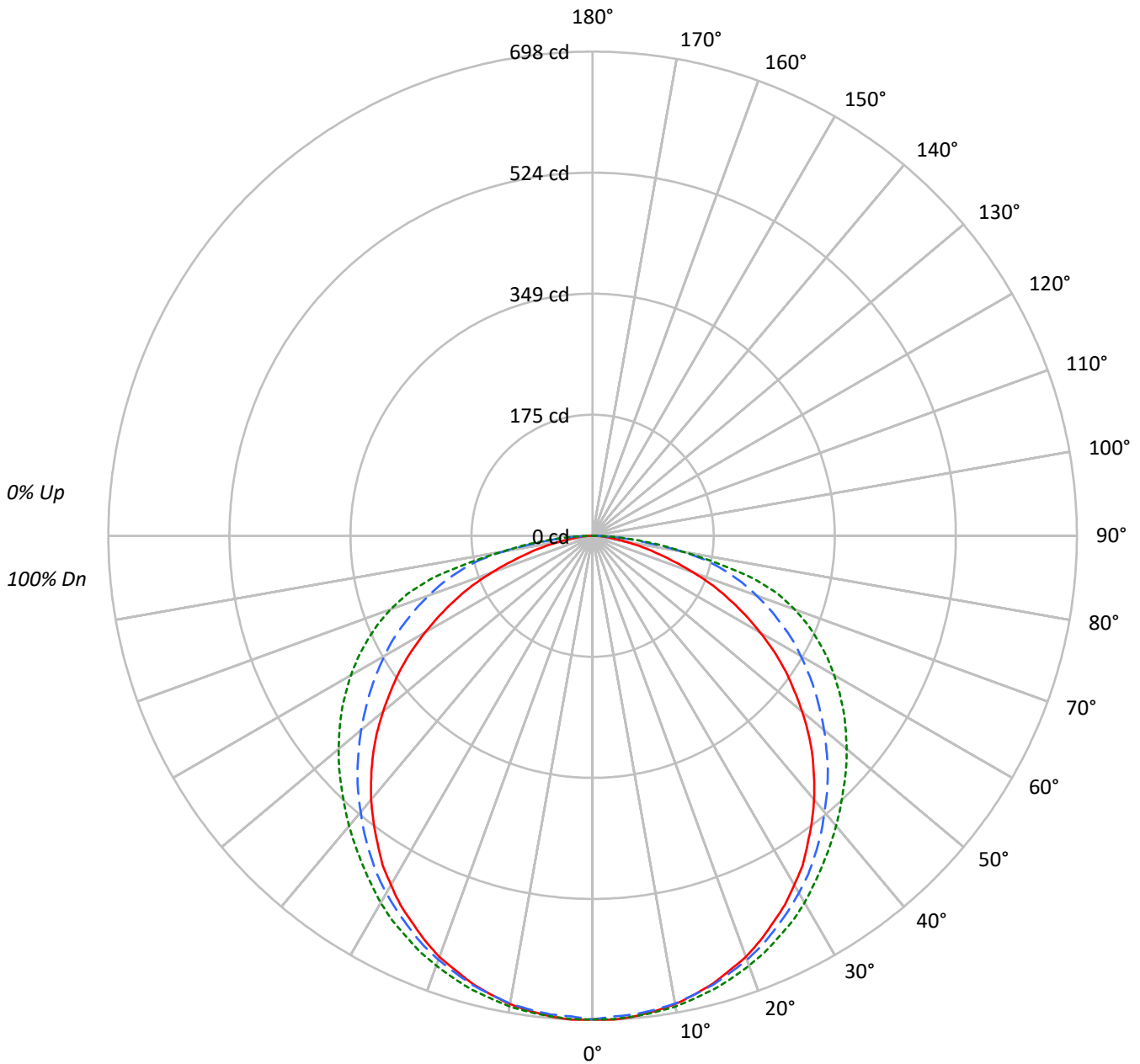
Lumens per Lamp: N/A
Luminaire Lumens: 2149.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734071

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

Luminous Intensity Polar Plot





TEST NUMBER: P734071

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

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	101	96	93	96	93	90	92	90	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	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	984	984	984
5°	985	981	985
10°	983	981	988
15°	977	979	989
20°	970	977	990
25°	958	972	992
30°	947	969	995
35°	932	964	997
40°	915	958	1006
45°	894	957	1022
50°	865	956	1049
55°	834	963	1087
60°	787	978	1135
65°	727	1001	1199
70°	635	1036	1277
75°	515	1089	1320
80°	380	1068	1068
85°	291	787	889



TEST NUMBER: P734071

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.1
10°-20°	189.7	8.8
20°-30°	288.7	13.4
30°-40°	350.6	16.3
40°-50°	370.4	17.2
50°-60°	349.5	16.3
60°-70°	290.6	13.5
70°-80°	191.2	8.9
80°-90°	52.1	2.4
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°	544.5	25.3
0°-40°	895.1	41.7
0°-60°	1615.0	75.2
0°-90°	2149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	696	696	693	696	696	66
15°	668	669	670	677	677	189
25°	615	619	624	635	637	284
35°	541	547	560	574	578	338
45°	448	457	480	503	512	345
55°	339	354	391	428	442	302
65°	218	243	300	344	359	215
75°	94	138	200	237	242	102
85°	18	40	49	54	55	22
90°	0	0	0	0	0	



TEST NUMBER: P734071

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.3	697.3	697.3	697.3	697.3
2.5°	698.2	697.3	693.6	697.3	697.3
5°	695.5	695.5	692.7	695.5	695.5
7.5°	690.9	690.9	689.1	692.7	692.7
10°	685.6	685.6	684.6	689.1	689.1
12.5°	677.5	678.4	677.5	682.8	682.8
15°	668.5	669.3	670.2	676.6	676.6
17.5°	656.8	658.6	660.3	667.6	668.5
20°	646.0	646.9	650.4	658.6	659.4
22.5°	631.5	634.3	638.7	646.9	649.5
25°	615.4	618.9	624.4	635.2	637.0
27.5°	600.0	602.8	609.9	621.6	625.3
30°	581.2	585.7	594.7	606.4	610.8
32.5°	563.2	567.7	578.4	591.1	594.7
35°	540.7	547.0	559.6	574.0	578.4
37.5°	519.1	525.4	540.7	556.9	562.3
40°	496.6	503.8	520.0	538.9	546.1
42.5°	472.3	482.2	500.2	520.9	529.0
45°	448.0	457.1	479.5	502.9	511.9
47.5°	421.9	432.7	457.1	484.9	495.7
50°	394.1	407.5	435.5	466.1	477.8
52.5°	366.2	381.4	412.9	447.2	459.7
55°	339.1	353.6	391.3	428.2	441.7
57.5°	309.5	327.4	368.8	408.4	421.9
60°	278.9	298.7	346.4	387.7	402.1
62.5°	248.3	270.8	324.8	366.2	381.4
65°	217.7	242.9	299.6	343.7	358.9
67.5°	188.0	216.0	276.1	320.3	335.6
70°	153.9	188.9	251.0	294.2	309.5
72.5°	122.4	162.9	226.7	267.2	280.7
75°	94.5	137.6	199.7	236.7	242.0
77.5°	69.3	112.5	171.8	184.5	185.4
80°	46.7	90.0	131.4	129.5	131.4
82.5°	30.6	67.4	82.8	92.7	93.6
85°	18.0	39.6	48.6	54.0	54.9
87.5°	9.0	13.5	17.1	18.0	19.8
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)