

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: P734085

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734085
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-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

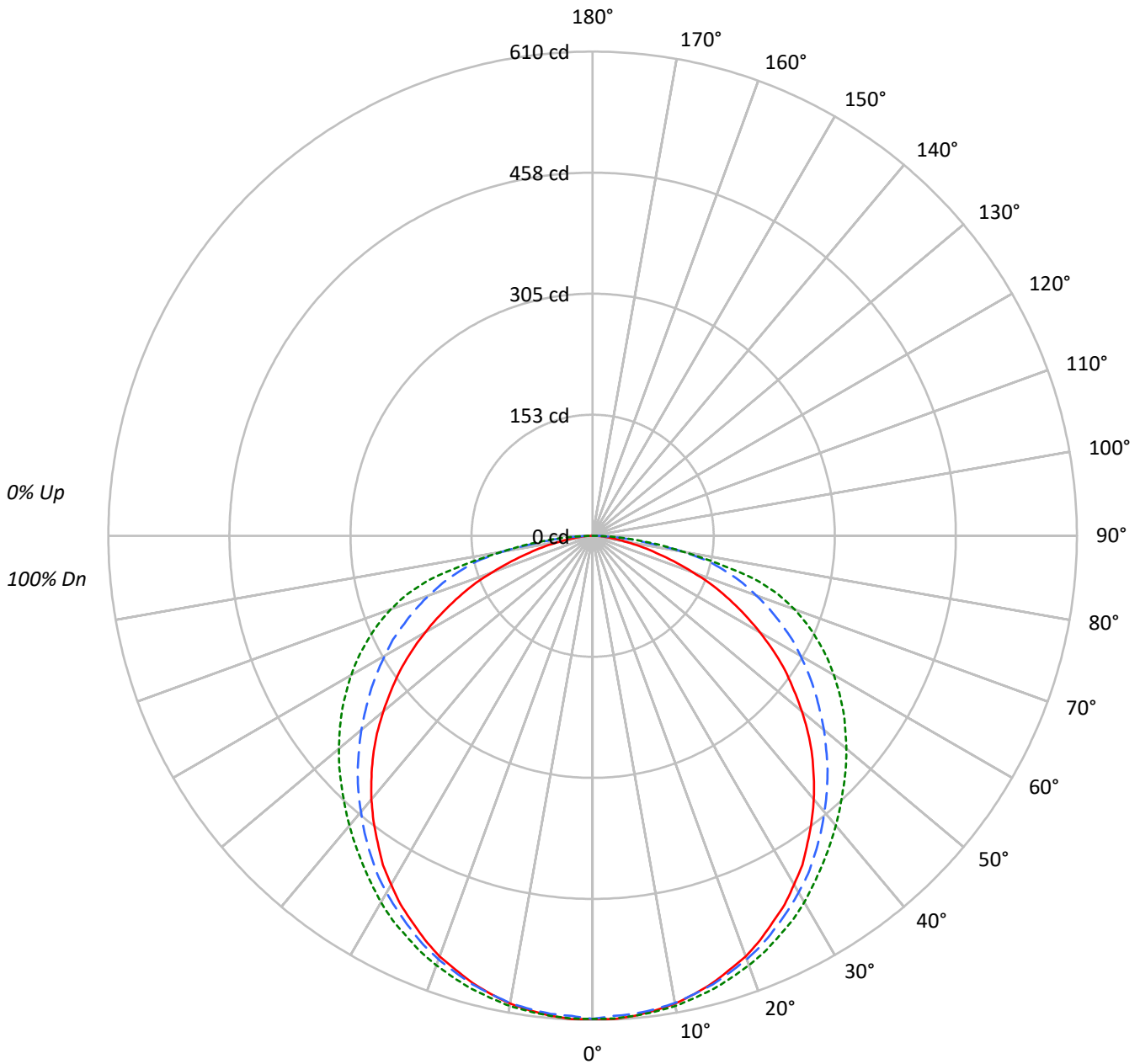
Lumens per Lamp: N/A
Luminaire Lumens: 1876.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734085

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

Luminous Intensity Polar Plot





TEST NUMBER: P734085

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

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°	859	859	859
5°	860	857	860
10°	858	856	862
15°	853	855	863
20°	847	853	865
25°	837	849	866
30°	827	846	869
35°	813	842	870
40°	799	836	878
45°	781	835	892
50°	755	835	916
55°	728	841	949
60°	687	854	991
65°	635	874	1046
70°	554	904	1115
75°	450	950	1152
80°	332	932	932
85°	254	687	776



TEST NUMBER: P734085

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.1
10°-20°	165.6	8.8
20°-30°	252.1	13.4
30°-40°	306.1	16.3
40°-50°	323.4	17.2
50°-60°	305.1	16.3
60°-70°	253.7	13.5
70°-80°	166.9	8.9
80°-90°	45.5	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°	475.3	25.3
0°-40°	781.4	41.7
0°-60°	1409.9	75.2
0°-90°	1876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	607	607	605	607	607	58
15°	584	584	585	591	591	165
25°	537	540	545	554	556	248
35°	472	478	488	501	505	295
45°	391	399	419	439	447	301
55°	296	309	342	374	386	264
65°	190	212	262	300	313	188
75°	82	120	174	207	211	89
85°	16	35	42	47	48	19
90°	0	0	0	0	0	



TEST NUMBER: P734085

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.7	608.7	608.7	608.7	608.7
2.5°	609.5	608.7	605.5	608.7	608.7
5°	607.1	607.1	604.7	607.1	607.1
7.5°	603.2	603.2	601.6	604.7	604.7
10°	598.5	598.5	597.6	601.6	601.6
12.5°	591.4	592.2	591.4	596.1	596.1
15°	583.5	584.3	585.1	590.6	590.6
17.5°	573.3	574.9	576.4	582.8	583.5
20°	563.9	564.7	567.8	574.9	575.7
22.5°	551.3	553.7	557.6	564.7	567.0
25°	537.2	540.3	545.1	554.5	556.1
27.5°	523.8	526.2	532.4	542.6	545.9
30°	507.4	511.3	519.1	529.3	533.2
32.5°	491.7	495.5	505.0	516.0	519.1
35°	472.0	477.5	488.5	501.1	505.0
37.5°	453.2	458.6	472.0	486.1	490.9
40°	433.5	439.8	454.0	470.5	476.7
42.5°	412.3	420.9	436.7	454.7	461.8
45°	391.1	399.0	418.6	439.0	446.9
47.5°	368.3	377.7	399.0	423.3	432.7
50°	344.0	355.8	380.2	406.9	417.1
52.5°	319.6	333.0	360.4	390.4	401.3
55°	296.0	308.7	341.6	373.8	385.6
57.5°	270.2	285.8	322.0	356.6	368.3
60°	243.5	260.8	302.4	338.5	351.0
62.5°	216.8	236.4	283.5	319.6	333.0
65°	190.1	212.0	261.6	300.0	313.3
67.5°	164.1	188.5	241.1	279.6	292.9
70°	134.3	164.9	219.1	256.8	270.2
72.5°	106.8	142.2	197.9	233.3	245.1
75°	82.5	120.1	174.3	206.6	211.3
77.5°	60.5	98.2	150.0	161.0	161.8
80°	40.8	78.6	114.7	113.1	114.7
82.5°	26.7	58.9	72.3	80.9	81.7
85°	15.7	34.6	42.4	47.1	47.9
87.5°	7.9	11.8	15.0	15.7	17.3
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)