

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: P733959

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733959  
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: 24FCZ2-30-HRP-B2750-W2D-CP375-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

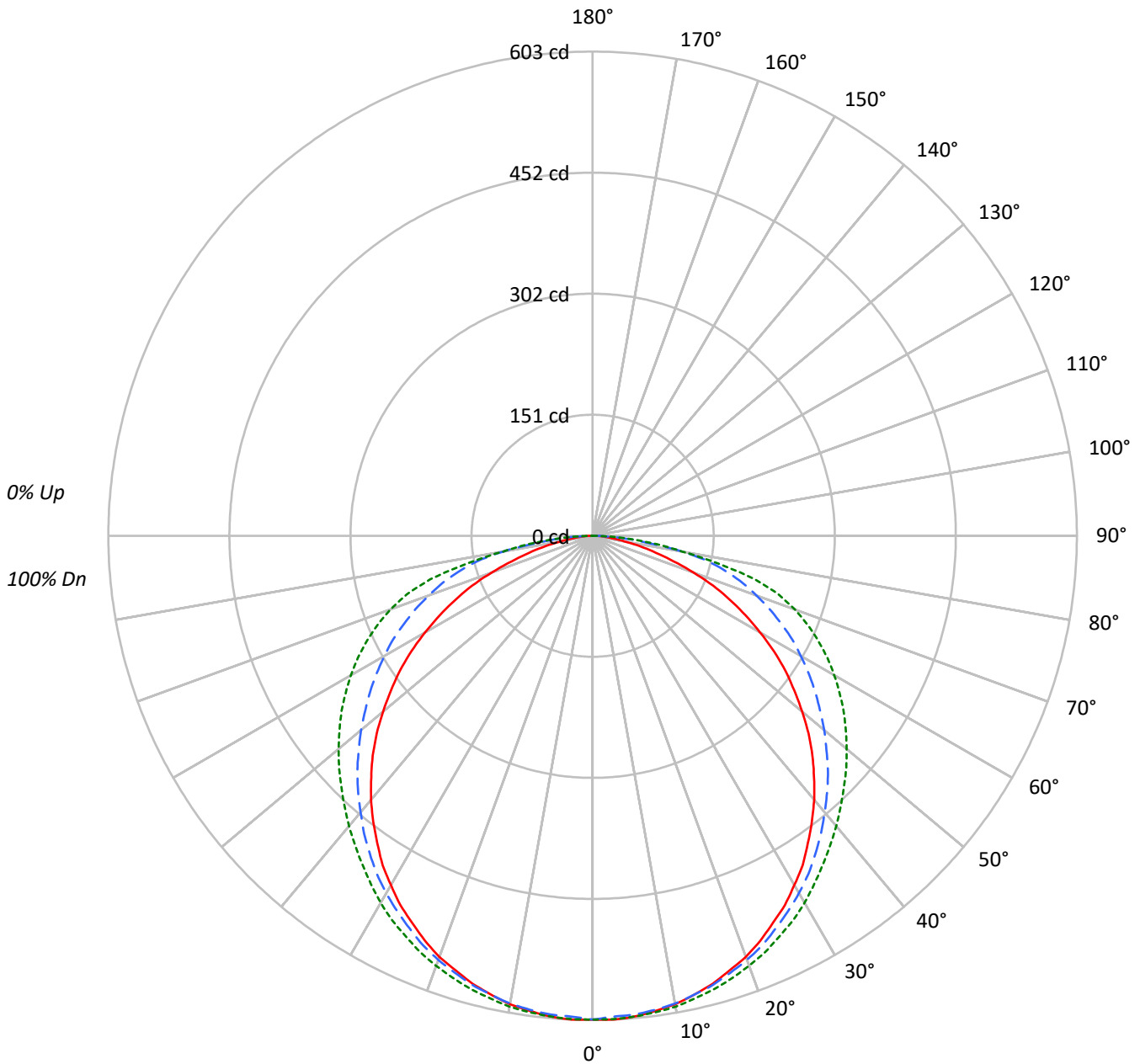
Lumens per Lamp: N/A  
Luminaire Lumens: 1857.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P733959

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CP375-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P733959

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CP375-4000K

**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	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°	850	850	850
5°	851	848	851
10°	849	848	853
15°	844	846	854
20°	838	844	856
25°	828	840	857
30°	819	837	860
35°	805	833	861
40°	791	828	869
45°	773	827	883
50°	748	826	906
55°	721	832	939
60°	680	845	981
65°	628	865	1036
70°	549	895	1104
75°	445	941	1140
80°	328	922	922
85°	253	680	768



TEST NUMBER: P733959

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CP375-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	3.1
10°-20°	163.9	8.8
20°-30°	249.5	13.4
30°-40°	303.0	16.3
40°-50°	320.1	17.2
50°-60°	302.0	16.3
60°-70°	251.1	13.5
70°-80°	165.2	8.9
80°-90°	45.0	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°	470.5	25.3
0°-40°	773.5	41.7
0°-60°	1395.6	75.2
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	601	599	601	601	57
15°	578	578	579	585	585	163
25°	532	535	540	549	550	245
35°	467	473	484	496	500	293
45°	387	395	414	435	442	298
55°	293	306	338	370	382	261
65°	188	210	259	297	310	186
75°	82	119	173	204	209	88
85°	16	34	42	47	47	19
90°	0	0	0	0	0	



TEST NUMBER: P733959

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CP375-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	602.5	602.5	602.5	602.5	602.5
2.5°	603.3	602.5	599.4	602.5	602.5
5°	601.0	601.0	598.6	601.0	601.0
7.5°	597.0	597.0	595.5	598.6	598.6
10°	592.4	592.4	591.6	595.5	595.5
12.5°	585.4	586.2	585.4	590.0	590.0
15°	577.6	578.4	579.2	584.6	584.6
17.5°	567.5	569.1	570.6	576.9	577.6
20°	558.2	559.0	562.1	569.1	569.8
22.5°	545.7	548.1	552.0	559.0	561.3
25°	531.8	534.8	539.6	548.9	550.4
27.5°	518.5	520.9	527.1	537.2	540.3
30°	502.3	506.1	513.9	524.0	527.8
32.5°	486.7	490.5	499.8	510.8	513.9
35°	467.3	472.6	483.6	496.0	499.8
37.5°	448.6	454.0	467.3	481.2	485.9
40°	429.1	435.3	449.4	465.7	471.9
42.5°	408.1	416.7	432.3	450.1	457.2
45°	387.2	395.0	414.4	434.6	442.4
47.5°	364.6	373.9	395.0	419.0	428.3
50°	340.5	352.2	376.3	402.7	412.8
52.5°	316.4	329.6	356.8	386.4	397.3
55°	293.0	305.5	338.1	370.1	381.7
57.5°	267.5	282.9	318.7	352.9	364.6
60°	241.0	258.1	299.3	335.1	347.5
62.5°	214.6	234.0	280.6	316.4	329.6
65°	188.2	209.9	258.9	297.0	310.2
67.5°	162.5	186.6	238.6	276.8	290.0
70°	133.0	163.3	216.9	254.2	267.5
72.5°	105.8	140.8	195.9	230.9	242.6
75°	81.6	118.9	172.6	204.5	209.1
77.5°	59.9	97.2	148.4	159.4	160.2
80°	40.4	77.8	113.5	111.9	113.5
82.5°	26.4	58.3	71.5	80.1	80.9
85°	15.6	34.2	42.0	46.6	47.4
87.5°	7.8	11.6	14.8	15.6	17.1
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)