

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: P734082

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734082
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-CP375-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

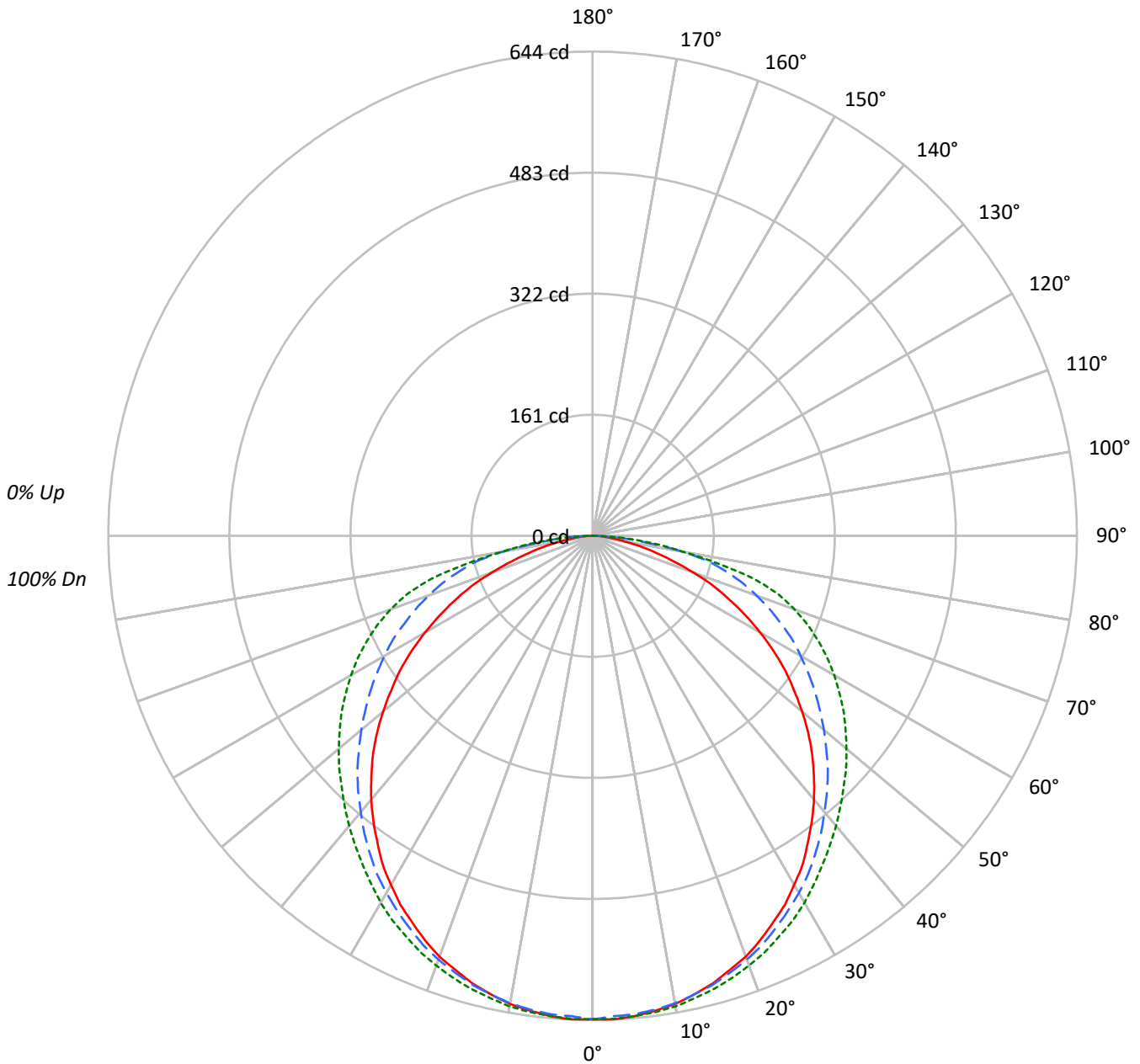
Lumens per Lamp: N/A
Luminaire Lumens: 1982.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	908	908	908
5°	909	905	909
10°	906	905	911
15°	901	903	912
20°	895	901	913
25°	884	897	915
30°	874	894	918
35°	859	889	919
40°	844	884	928
45°	825	883	942
50°	798	882	967
55°	770	888	1002
60°	726	902	1047
65°	671	923	1105
70°	586	955	1178
75°	475	1004	1217
80°	350	985	985
85°	269	725	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.1
10°-20°	174.9	8.8
20°-30°	266.3	13.4
30°-40°	323.4	16.3
40°-50°	341.6	17.2
50°-60°	322.4	16.3
60°-70°	268.0	13.5
70°-80°	176.3	8.9
80°-90°	48.1	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°	502.2	25.3
0°-40°	825.5	41.7
0°-60°	1489.5	75.2
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	641	641	639	641	641	61
15°	616	617	618	624	624	174
25°	568	571	576	586	588	262
35°	499	504	516	529	534	312
45°	413	422	442	464	472	318
55°	313	326	361	395	407	279
65°	201	224	276	317	331	199
75°	87	127	184	218	223	94
85°	17	36	45	50	51	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.1	643.1	643.1	643.1	643.1
2.5°	643.9	643.1	639.7	643.1	643.1
5°	641.4	641.4	638.9	641.4	641.4
7.5°	637.2	637.2	635.6	638.9	638.9
10°	632.3	632.3	631.4	635.6	635.6
12.5°	624.8	625.6	624.8	629.7	629.7
15°	616.5	617.3	618.2	624.0	624.0
17.5°	605.7	607.4	609.0	615.7	616.5
20°	595.8	596.6	599.9	607.4	608.2
22.5°	582.4	585.0	589.1	596.6	599.1
25°	567.6	570.8	575.9	585.8	587.5
27.5°	553.4	556.0	562.5	573.3	576.7
30°	536.1	540.2	548.5	559.3	563.4
32.5°	519.4	523.5	533.5	545.2	548.5
35°	498.7	504.5	516.2	529.4	533.5
37.5°	478.8	484.5	498.7	513.6	518.6
40°	458.0	464.6	479.6	497.1	503.6
42.5°	435.6	444.7	461.4	480.4	487.9
45°	413.2	421.5	442.3	463.8	472.1
47.5°	389.1	399.1	421.5	447.2	457.1
50°	363.5	375.9	401.6	429.9	440.6
52.5°	337.7	351.8	380.8	412.4	424.0
55°	312.8	326.1	360.9	395.0	407.4
57.5°	285.5	302.0	340.2	376.7	389.1
60°	257.3	275.5	319.4	357.6	370.8
62.5°	229.0	249.8	299.5	337.7	351.8
65°	200.8	224.0	276.3	317.0	331.0
67.5°	173.4	199.2	254.7	295.4	309.5
70°	141.9	174.2	231.5	271.3	285.5
72.5°	112.9	150.2	209.1	246.5	258.9
75°	87.1	126.9	184.2	218.3	223.2
77.5°	63.9	103.7	158.4	170.1	171.0
80°	43.1	83.0	121.2	119.4	121.2
82.5°	28.2	62.2	76.3	85.5	86.3
85°	16.6	36.5	44.8	49.8	50.6
87.5°	8.3	12.4	15.8	16.6	18.3
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)