

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: P734332

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734332
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: 24FCZ2-35HE-HRP-B2750-W2D-CP375-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

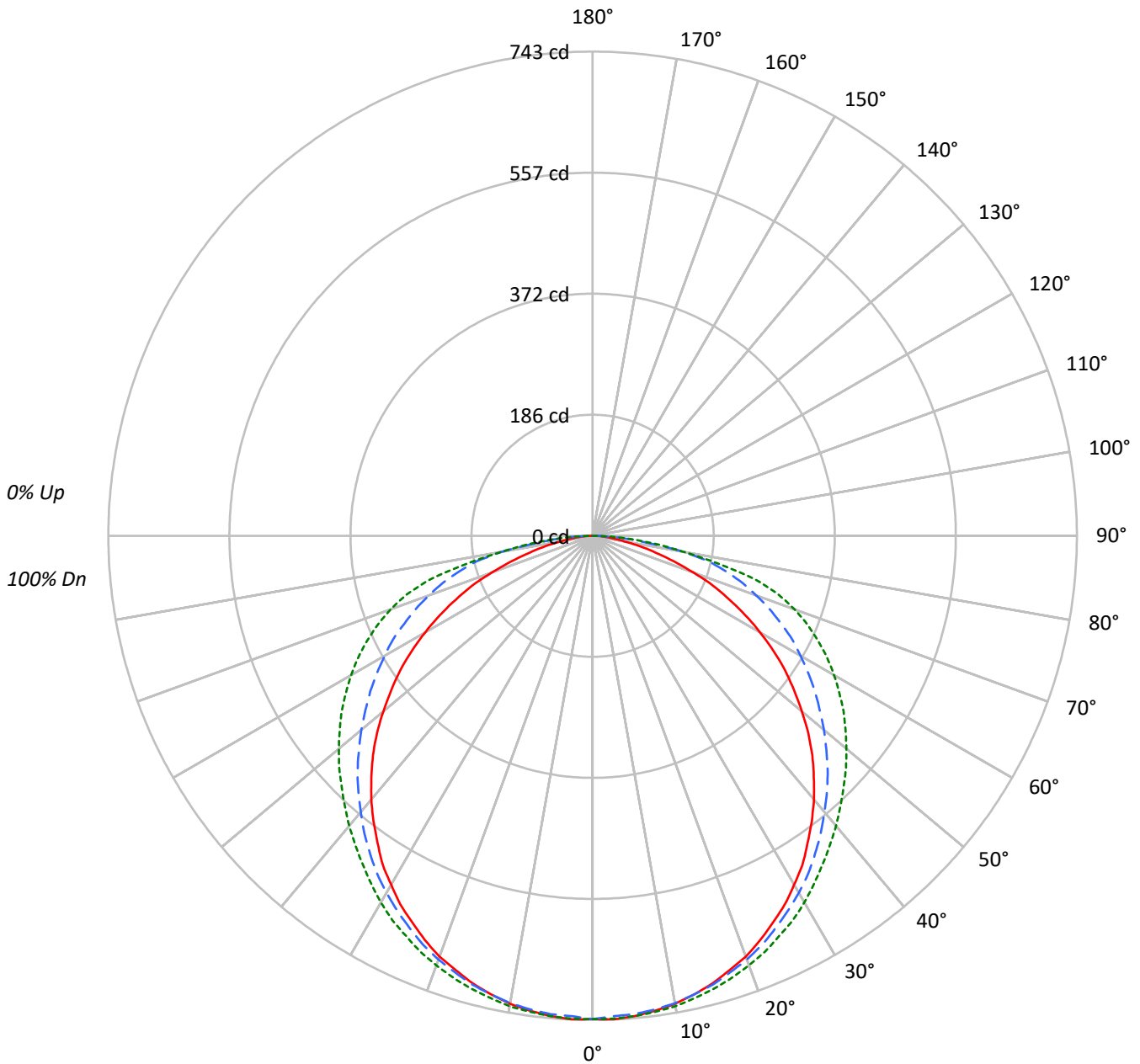
Lumens per Lamp: N/A
Luminaire Lumens: 2286.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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: P734332

CATALOG NUMBER: 24FCZ2-35HE-HRP-B2750-W2D-CP375-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82	82	82	82	82	82		
	2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67	67	67	67	67	67		
	3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56	56	56	56	56	56		
	4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48	48	48	48	48	48		
	5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41	41	41	41	41	41		
	6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36	36	36	36	36	36		
	7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31	31	31	31		
	8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28	28	28	28	28	28		
	9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25	25	25	25	25	25		
	10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23	23	23	23	23	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1047	1047	1047
5°	1048	1044	1048
10°	1045	1044	1051
15°	1039	1042	1052
20°	1032	1039	1054
25°	1019	1034	1055
30°	1008	1031	1059
35°	991	1026	1060
40°	973	1019	1070
45°	951	1018	1087
50°	920	1017	1116
55°	888	1024	1156
60°	837	1040	1207
65°	773	1064	1275
70°	676	1102	1359
75°	548	1158	1404
80°	404	1136	1136
85°	311	837	944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.1
10°-20°	201.8	8.8
20°-30°	307.2	13.4
30°-40°	373.0	16.3
40°-50°	394.0	17.2
50°-60°	371.8	16.3
60°-70°	309.2	13.5
70°-80°	203.4	8.9
80°-90°	55.4	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°	579.2	25.3
0°-40°	952.1	41.7
0°-60°	1718.0	75.2
0°-90°	2286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	740	737	740	740	70
15°	711	712	713	720	720	201
25°	655	658	664	676	678	302
35°	575	582	595	611	615	360
45°	477	486	510	535	544	367
55°	361	376	416	456	470	321
65°	232	258	319	366	382	229
75°	100	146	212	252	257	108
85°	19	42	52	57	58	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.7	741.7	741.7	741.7	741.7
2.5°	742.7	741.7	737.8	741.7	741.7
5°	739.8	739.8	736.9	739.8	739.8
7.5°	735.0	735.0	733.1	736.9	736.9
10°	729.3	729.3	728.2	733.1	733.1
12.5°	720.7	721.6	720.7	726.3	726.3
15°	711.1	712.0	713.0	719.7	719.7
17.5°	698.6	700.5	702.4	710.1	711.1
20°	687.2	688.1	691.9	700.5	701.5
22.5°	671.8	674.7	679.5	688.1	690.9
25°	654.6	658.4	664.2	675.7	677.6
27.5°	638.3	641.2	648.8	661.2	665.1
30°	618.3	623.0	632.6	645.0	649.8
32.5°	599.1	603.8	615.3	628.8	632.6
35°	575.2	581.8	595.3	610.6	615.3
37.5°	552.2	558.9	575.2	592.4	598.2
40°	528.2	535.9	553.2	573.3	580.9
42.5°	502.4	512.9	532.1	554.1	562.8
45°	476.6	486.2	510.1	535.0	544.5
47.5°	448.8	460.3	486.2	515.8	527.3
50°	419.2	433.5	463.2	495.8	508.2
52.5°	389.5	405.7	439.2	475.7	489.0
55°	360.7	376.1	416.3	455.5	469.9
57.5°	329.3	348.3	392.3	434.5	448.8
60°	296.7	317.8	368.4	412.5	427.7
62.5°	264.2	288.1	345.5	389.5	405.7
65°	231.6	258.4	318.7	365.6	381.8
67.5°	200.0	229.7	293.8	340.7	357.0
70°	163.7	201.0	267.0	312.9	329.3
72.5°	130.2	173.3	241.2	284.3	298.6
75°	100.5	146.4	212.4	251.7	257.4
77.5°	73.7	119.7	182.7	196.2	197.2
80°	49.7	95.7	139.8	137.8	139.8
82.5°	32.5	71.7	88.1	98.6	99.5
85°	19.2	42.1	51.7	57.4	58.3
87.5°	9.6	14.3	18.2	19.2	21.1
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)