

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: P734335

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734335
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-CP375-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

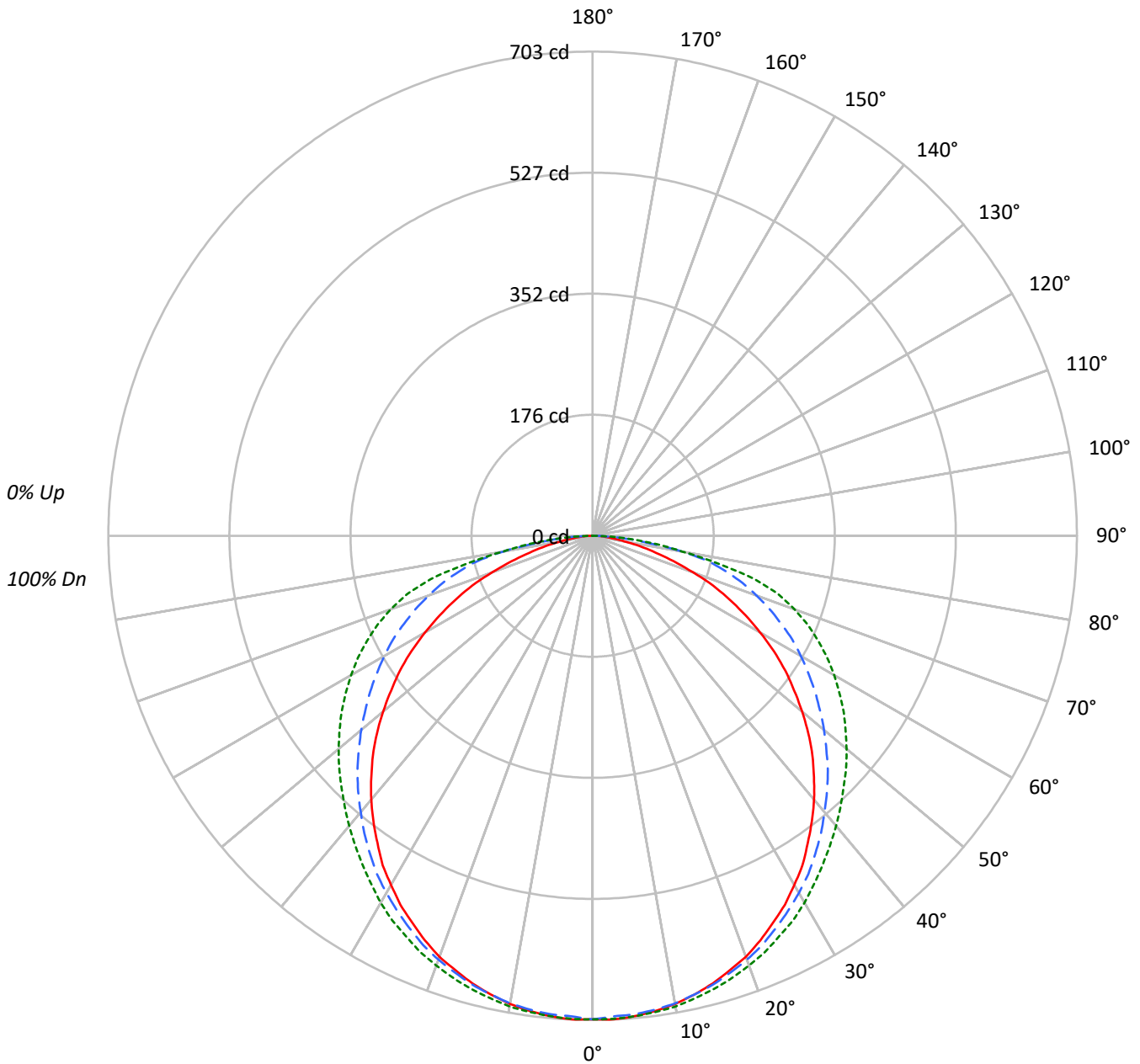
Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	991	991	991
5°	992	988	992
10°	989	988	995
15°	983	986	995
20°	977	984	997
25°	965	979	999
30°	954	976	1002
35°	938	971	1004
40°	921	965	1013
45°	901	964	1029
50°	871	963	1056
55°	840	969	1094
60°	793	985	1143
65°	732	1008	1207
70°	639	1043	1286
75°	519	1097	1329
80°	383	1075	1075
85°	295	793	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.1
10°-20°	191.0	8.8
20°-30°	290.8	13.4
30°-40°	353.1	16.3
40°-50°	373.0	17.2
50°-60°	352.0	16.3
60°-70°	292.7	13.5
70°-80°	192.6	8.9
80°-90°	52.5	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°	548.3	25.3
0°-40°	901.3	41.7
0°-60°	1626.3	75.2
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	700	700	698	700	700	67
15°	673	674	675	681	681	190
25°	620	623	629	640	641	286
35°	544	551	564	578	582	341
45°	451	460	483	506	516	347
55°	342	356	394	431	445	304
65°	219	245	302	346	361	217
75°	95	139	201	238	244	102
85°	18	40	49	54	55	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	703.0	702.1	698.4	702.1	702.1
5°	700.3	700.3	697.5	700.3	700.3
7.5°	695.8	695.8	694.0	697.5	697.5
10°	690.4	690.4	689.4	694.0	694.0
12.5°	682.2	683.1	682.2	687.6	687.6
15°	673.1	674.0	674.9	681.3	681.3
17.5°	661.4	663.1	664.9	672.2	673.1
20°	650.5	651.4	655.0	663.1	664.0
22.5°	635.9	638.7	643.2	651.4	654.1
25°	619.7	623.3	628.8	639.6	641.4
27.5°	604.2	607.0	614.2	626.0	629.7
30°	585.3	589.8	598.8	610.6	615.1
32.5°	567.1	571.6	582.5	595.3	598.8
35°	544.5	550.8	563.5	578.0	582.5
37.5°	522.8	529.0	544.5	560.7	566.2
40°	500.0	507.3	523.7	542.7	549.9
42.5°	475.6	485.6	503.7	524.6	532.7
45°	451.2	460.2	482.9	506.4	515.5
47.5°	424.8	435.7	460.2	488.3	499.1
50°	396.8	410.4	438.5	469.3	481.1
52.5°	368.7	384.1	415.8	450.3	462.9
55°	341.5	356.1	394.0	431.2	444.8
57.5°	311.7	329.7	371.4	411.3	424.8
60°	280.9	300.8	348.8	390.5	404.9
62.5°	250.1	272.7	327.0	368.7	384.1
65°	219.3	244.6	301.7	346.1	361.4
67.5°	189.3	217.5	278.1	322.6	337.9
70°	154.9	190.2	252.8	296.2	311.7
72.5°	123.2	164.0	228.3	269.1	282.7
75°	95.1	138.6	201.1	238.3	243.7
77.5°	69.8	113.3	173.0	185.8	186.7
80°	47.1	90.6	132.3	130.4	132.3
82.5°	30.8	67.9	83.4	93.3	94.2
85°	18.2	39.9	49.0	54.3	55.2
87.5°	9.1	13.6	17.3	18.2	19.9
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)