

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: P734334

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734334
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-CP375-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

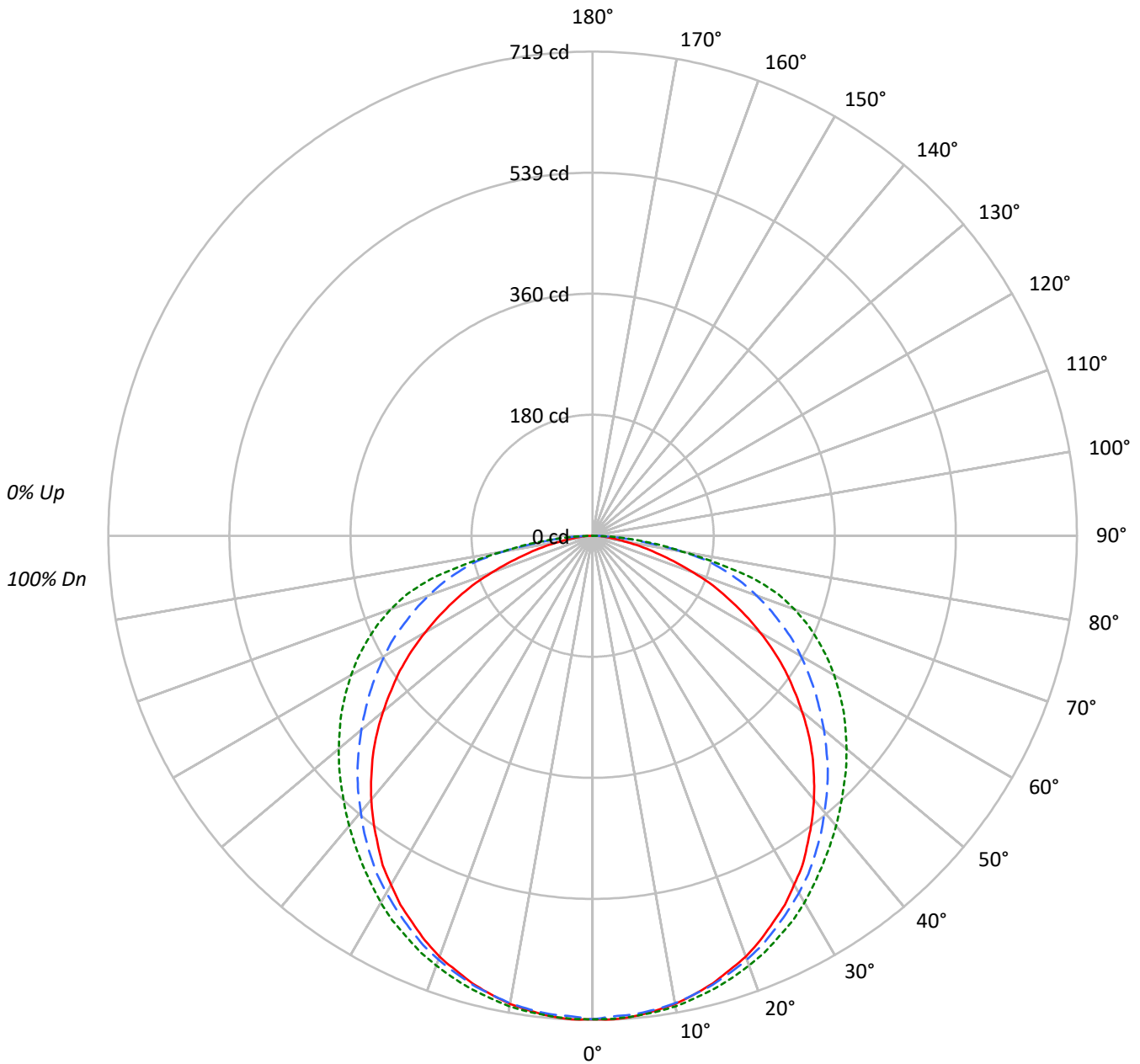
Lumens per Lamp: N/A
Luminaire Lumens: 2213.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1013	1013	1013
5°	1015	1011	1015
10°	1012	1010	1017
15°	1006	1008	1018
20°	999	1006	1020
25°	987	1001	1021
30°	975	998	1025
35°	959	993	1026
40°	942	987	1036
45°	921	986	1052
50°	891	985	1080
55°	859	992	1119
60°	811	1007	1169
65°	749	1030	1234
70°	654	1067	1315
75°	531	1122	1359
80°	391	1100	1100
85°	301	811	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.1
10°-20°	195.3	8.8
20°-30°	297.3	13.4
30°-40°	361.0	16.3
40°-50°	381.5	17.2
50°-60°	359.9	16.3
60°-70°	299.3	13.5
70°-80°	196.9	8.9
80°-90°	53.7	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°	560.7	25.3
0°-40°	921.7	41.7
0°-60°	1663.1	75.2
0°-90°	2213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	716	716	713	716	716	68
15°	688	689	690	697	697	194
25°	634	637	643	654	656	292
35°	557	563	576	591	596	349
45°	461	471	494	518	527	355
55°	349	364	403	441	455	311
65°	224	250	308	354	370	222
75°	97	142	206	244	249	105
85°	19	41	50	56	56	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.0	718.0	718.0	718.0	718.0
2.5°	719.0	718.0	714.3	718.0	718.0
5°	716.2	716.2	713.3	716.2	716.2
7.5°	711.5	711.5	709.7	713.3	713.3
10°	706.0	706.0	705.0	709.7	709.7
12.5°	697.6	698.6	697.6	703.1	703.1
15°	688.4	689.3	690.2	696.7	696.7
17.5°	676.3	678.2	680.0	687.4	688.4
20°	665.2	666.1	669.8	678.2	679.1
22.5°	650.3	653.2	657.8	666.1	668.9
25°	633.7	637.4	643.0	654.1	655.9
27.5°	617.9	620.8	628.1	640.1	643.9
30°	598.5	603.1	612.4	624.4	629.0
32.5°	580.0	584.6	595.7	608.7	612.4
35°	556.8	563.2	576.3	591.1	595.7
37.5°	534.6	541.0	556.8	573.4	579.1
40°	511.3	518.8	535.5	555.0	562.3
42.5°	486.4	496.6	515.1	536.4	544.8
45°	461.4	470.7	493.8	517.9	527.2
47.5°	434.5	445.6	470.7	499.3	510.4
50°	405.8	419.7	448.4	480.0	492.0
52.5°	377.1	392.8	425.2	460.5	473.4
55°	349.2	364.1	403.0	441.0	454.9
57.5°	318.7	337.2	379.8	420.6	434.5
60°	287.2	307.6	356.7	399.3	414.1
62.5°	255.7	278.9	334.4	377.1	392.8
65°	224.2	250.1	308.5	353.9	369.6
67.5°	193.6	222.4	284.4	329.9	345.6
70°	158.5	194.5	258.5	302.9	318.7
72.5°	126.0	167.7	233.5	275.2	289.1
75°	97.3	141.7	205.7	243.7	249.2
77.5°	71.4	115.8	176.9	190.0	190.9
80°	48.1	92.7	135.3	133.4	135.3
82.5°	31.5	69.4	85.2	95.4	96.4
85°	18.6	40.8	50.1	55.6	56.5
87.5°	9.3	13.9	17.6	18.6	20.4
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)