

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: P732454

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-HRP-B2750-W2D-CP250-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

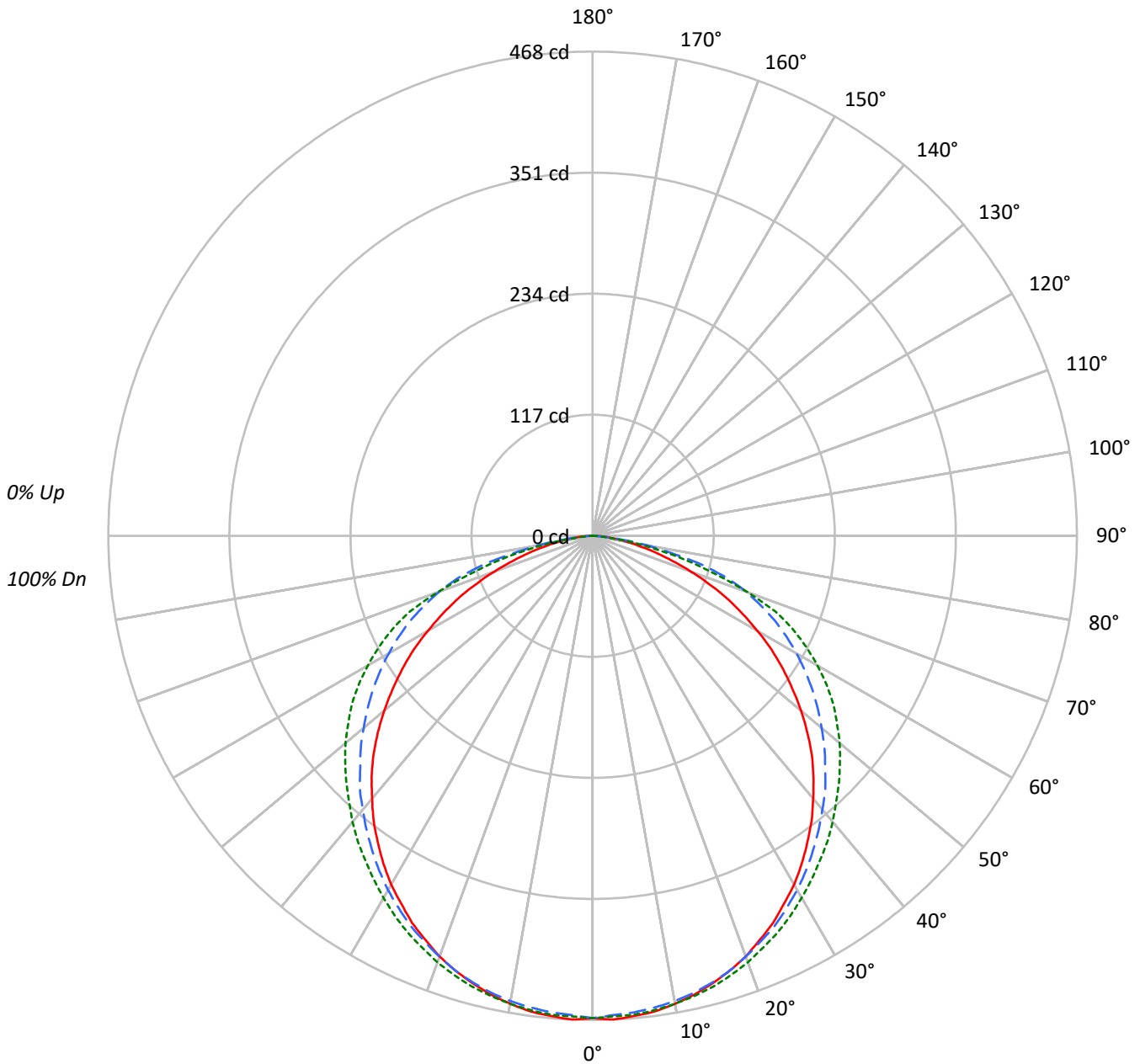
Lumens per Lamp: N/A
Luminaire Lumens: 1373.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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					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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84	84	84		
	2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69	69	69	69	69	69		
	3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58	58	58	58	58	58		
	4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49	49	49		
	5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42	42	42		
	6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37	37	37	37		
	7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33	33	33	33		
	8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	29	29	29		
	9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26	26	26	26	26	26		
	10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24	24	24	24	24	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1316	1316	1316
5°	1320	1310	1316
10°	1316	1309	1316
15°	1309	1306	1318
20°	1299	1301	1318
25°	1286	1296	1318
30°	1269	1289	1317
35°	1247	1279	1320
40°	1222	1273	1330
45°	1196	1268	1344
50°	1154	1268	1369
55°	1105	1275	1398
60°	1038	1284	1416
65°	958	1298	1425
70°	834	1301	1311
75°	687	1211	1059
80°	540	870	709
85°	421	337	165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.2
10°-20°	126.7	9.2
20°-30°	192.4	14.0
30°-40°	233.1	17.0
40°-50°	245.6	17.9
50°-60°	229.3	16.7
60°-70°	183.2	13.3
70°-80°	100.8	7.3
80°-90°	17.8	1.3
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°	363.2	26.5
0°-40°	596.2	43.4
0°-60°	1071.1	78.0
0°-90°	1373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	466	465	462	466	465	44
15°	448	448	447	451	451	126
25°	413	414	416	422	423	190
35°	362	365	371	381	383	226
45°	300	305	318	332	337	231
55°	224	236	259	277	284	200
65°	143	162	194	210	213	141
75°	63	90	111	100	97	68
85°	13	16	10	6	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.2	466.2	466.2	466.2	466.2
2.5°	468.0	466.7	463.7	466.2	465.0
5°	465.9	464.6	462.4	465.5	464.6
7.5°	463.7	462.0	459.8	463.3	462.4
10°	459.3	458.0	456.8	459.8	459.3
12.5°	454.2	453.8	452.5	456.0	455.5
15°	447.8	447.8	446.9	451.1	451.1
17.5°	440.8	440.3	440.8	445.6	445.1
20°	432.6	432.6	433.0	438.7	438.7
22.5°	422.6	423.1	424.4	431.3	430.8
25°	412.8	413.6	416.2	422.2	423.1
27.5°	400.7	402.9	405.8	413.1	414.0
30°	389.4	390.7	395.4	402.4	404.1
32.5°	376.1	378.6	383.8	391.6	393.8
35°	361.8	365.3	371.3	380.8	383.0
37.5°	347.6	350.6	358.8	368.7	372.6
40°	331.6	336.7	345.4	356.6	360.9
42.5°	316.0	321.2	332.9	344.5	348.4
45°	299.6	305.3	317.7	332.0	336.7
47.5°	281.5	288.0	304.0	319.0	324.2
50°	262.9	271.1	288.8	305.7	311.7
52.5°	243.5	253.8	274.1	291.8	297.5
55°	224.5	235.7	259.1	277.2	284.1
57.5°	205.1	217.2	243.5	264.2	268.1
60°	183.9	198.6	227.5	245.6	250.9
62.5°	163.2	180.1	211.1	228.4	232.7
65°	143.4	161.5	194.3	210.2	213.3
67.5°	121.7	143.4	175.7	190.4	191.2
70°	101.1	126.1	157.6	164.4	158.9
72.5°	80.7	107.5	136.5	130.8	126.1
75°	63.0	90.3	111.0	99.8	97.1
77.5°	46.7	73.9	79.4	73.4	68.6
80°	33.2	58.2	53.5	45.8	43.6
82.5°	22.8	36.7	29.4	22.8	19.9
85°	13.0	16.4	10.4	6.4	5.1
87.5°	5.6	3.9	2.2	1.7	1.7
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)