

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: P732448

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732448
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-CP187-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

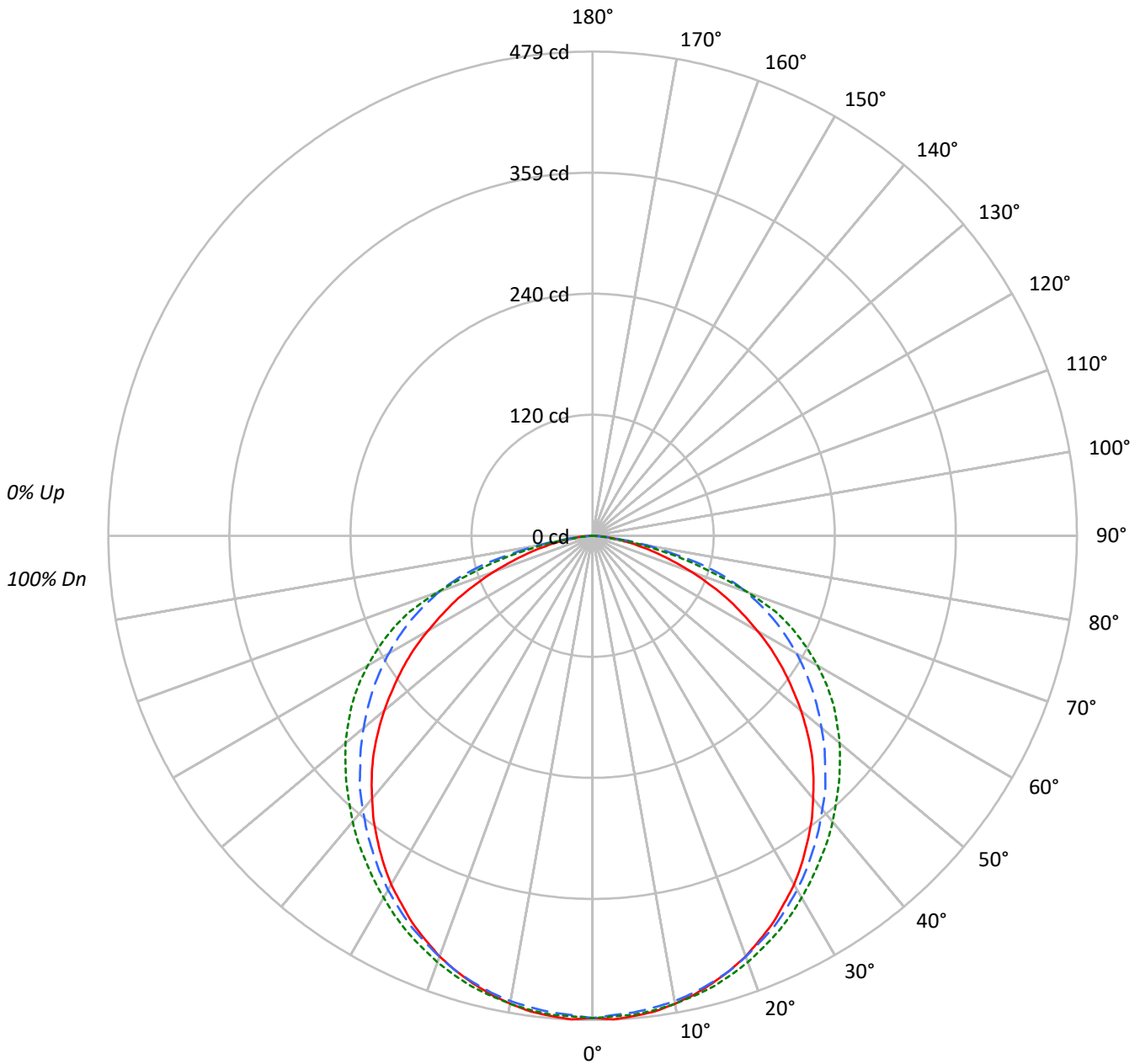
Lumens per Lamp: N/A
Luminaire Lumens: 1405.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732448

CATALOG NUMBER: 14FCZ2-20-HRP-B2750-W2D-CP187-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1347	1347	1347
5°	1351	1341	1347
10°	1347	1340	1347
15°	1339	1336	1349
20°	1330	1331	1348
25°	1316	1326	1348
30°	1299	1319	1348
35°	1276	1309	1350
40°	1250	1302	1361
45°	1224	1298	1376
50°	1181	1298	1401
55°	1131	1305	1431
60°	1062	1314	1449
65°	980	1328	1458
70°	853	1330	1342
75°	703	1239	1084
80°	553	891	725
85°	431	343	172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.2
10°-20°	129.6	9.2
20°-30°	196.8	14.0
30°-40°	238.5	17.0
40°-50°	251.3	17.9
50°-60°	234.6	16.7
60°-70°	187.5	13.3
70°-80°	103.2	7.3
80°-90°	18.2	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°	371.6	26.4
0°-40°	610.1	43.4
0°-60°	1096.1	78.0
0°-90°	1405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	477	475	473	476	475	45
15°	458	458	457	462	462	129
25°	422	423	426	432	433	194
35°	370	374	380	390	392	232
45°	307	312	325	340	345	236
55°	230	241	265	284	291	205
65°	147	165	199	215	218	144
75°	64	92	114	102	99	69
85°	13	17	11	7	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.1	477.1	477.1	477.1	477.1
2.5°	478.9	477.5	474.5	477.1	475.9
5°	476.8	475.4	473.2	476.3	475.4
7.5°	474.5	472.7	470.5	474.1	473.2
10°	470.0	468.7	467.5	470.5	470.0
12.5°	464.8	464.3	463.0	466.6	466.1
15°	458.2	458.2	457.3	461.7	461.7
17.5°	451.0	450.6	451.0	456.0	455.5
20°	442.7	442.7	443.1	448.9	448.9
22.5°	432.5	432.9	434.3	441.3	440.9
25°	422.4	423.2	425.9	432.0	432.9
27.5°	410.0	412.2	415.3	422.7	423.6
30°	398.5	399.8	404.6	411.8	413.5
32.5°	384.8	387.4	392.8	400.7	403.0
35°	370.2	373.8	379.9	389.7	391.9
37.5°	355.7	358.8	367.2	377.2	381.3
40°	339.3	344.6	353.4	364.9	369.3
42.5°	323.4	328.7	340.7	352.5	356.6
45°	306.6	312.4	325.1	339.8	344.6
47.5°	288.0	294.7	311.1	326.5	331.7
50°	269.0	277.4	295.5	312.8	319.0
52.5°	249.2	259.7	280.5	298.6	304.5
55°	229.8	241.2	265.1	283.7	290.7
57.5°	209.9	222.3	249.2	270.4	274.4
60°	188.2	203.3	232.8	251.3	256.7
62.5°	167.0	184.3	216.0	233.7	238.2
65°	146.7	165.3	198.8	215.1	218.3
67.5°	124.6	146.7	179.8	194.9	195.7
70°	103.4	129.0	161.2	168.3	162.6
72.5°	82.6	110.0	139.6	133.8	129.0
75°	64.5	92.4	113.6	102.1	99.4
77.5°	47.7	75.6	81.3	75.1	70.2
80°	34.0	59.6	54.8	46.8	44.6
82.5°	23.4	37.6	30.1	23.4	20.3
85°	13.3	16.8	10.6	6.6	5.3
87.5°	5.7	4.0	2.2	1.8	1.8
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)