

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: P307266

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-5700K**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P307266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 5700K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

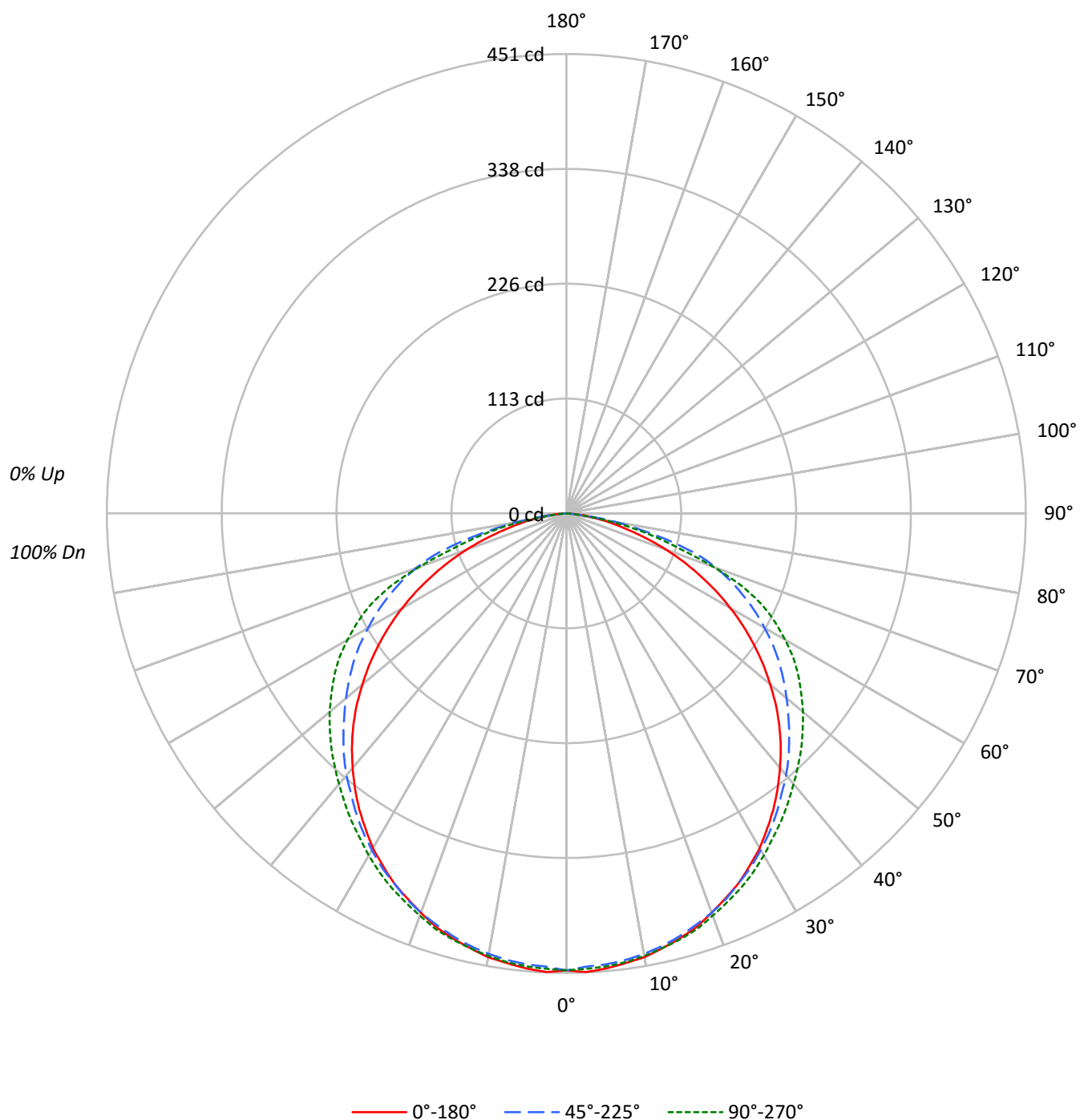
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1207	1207	1207
5°	1212	1200	1206
10°	1208	1200	1205
15°	1203	1197	1206
20°	1194	1194	1203
25°	1189	1189	1204
30°	1179	1186	1205
35°	1164	1181	1209
40°	1146	1179	1219
45°	1126	1177	1241
50°	1094	1182	1269
55°	1055	1197	1305
60°	1002	1210	1334
65°	925	1224	1351
70°	822	1234	1209
75°	663	1108	967
80°	519	778	632
85°	355	225	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.2
10°-20°	121.8	9.1
20°-30°	185.4	13.8
30°-40°	225.9	16.9
40°-50°	239.6	17.9
50°-60°	226.2	16.9
60°-70°	182.6	13.6
70°-80°	99.1	7.4
80°-90°	16.0	1.2
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°	349.7	26.1
0°-40°	575.5	43.0
0°-60°	1041.3	77.8
0°-90°	1339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	448	447	444	447	446	43
15°	432	431	430	433	433	122
25°	400	399	400	405	406	184
35°	354	356	360	367	368	222
45°	296	300	309	321	326	228
55°	225	234	255	272	278	201
65°	145	163	192	208	212	144
75°	64	93	107	96	93	70
85°	12	12	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.5	448.5	448.5	448.5	448.5
2.5°	450.6	448.5	445.3	448.5	447.4
5°	448.5	447.4	444.3	447.4	446.4
7.5°	445.3	445.3	442.2	444.3	444.3
10°	442.2	441.1	439.1	442.2	441.1
12.5°	437.0	435.9	434.9	438.0	437.0
15°	431.7	430.7	429.6	432.8	432.8
17.5°	425.5	424.4	423.4	427.6	427.6
20°	417.1	417.1	417.1	421.3	420.2
22.5°	408.7	408.7	409.8	414.0	412.9
25°	400.4	399.3	400.4	404.6	405.6
27.5°	389.9	391.0	392.0	396.2	397.2
30°	379.5	380.5	381.6	386.8	387.8
32.5°	366.9	369.0	371.1	377.4	377.4
35°	354.4	356.5	359.6	366.9	368.0
37.5°	340.8	342.9	347.1	355.4	357.5
40°	326.2	329.3	335.6	343.9	347.1
42.5°	311.5	315.7	323.0	332.4	336.6
45°	295.8	300.0	309.4	320.9	326.2
47.5°	279.1	284.3	295.8	310.5	314.7
50°	261.3	268.7	282.3	297.9	303.2
52.5°	243.6	251.9	268.7	285.4	290.6
55°	224.8	234.2	255.1	271.8	278.1
57.5°	205.9	216.4	240.4	258.2	264.5
60°	186.1	198.6	224.8	242.5	247.8
62.5°	166.2	180.8	209.1	226.8	231.0
65°	145.3	163.1	192.3	208.0	212.2
67.5°	125.4	146.4	175.6	187.1	187.1
70°	104.5	127.5	156.8	159.9	153.7
72.5°	83.6	109.8	135.9	124.4	119.2
75°	63.8	93.0	106.6	96.2	93.0
77.5°	48.1	75.3	75.3	69.0	66.9
80°	33.5	57.5	50.2	43.9	40.8
82.5°	22.0	32.4	26.1	20.9	17.8
85°	11.5	12.5	7.3	6.3	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)