

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: P307260

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-3000K**

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: P307260
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-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 3000K 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: 1213.0 lumens
Efficiency: N/A
Efficacy: 74.0 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

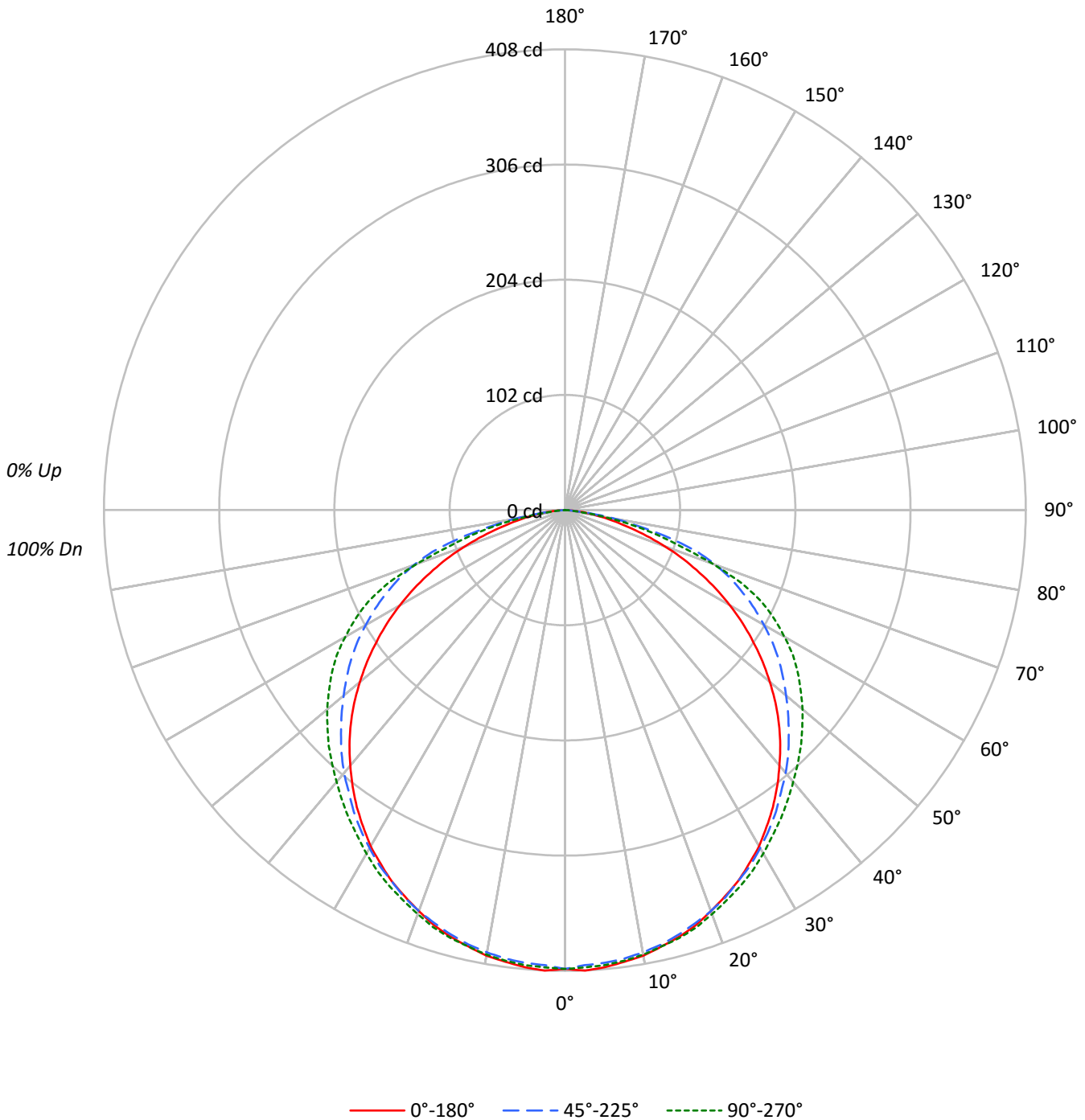
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-20-UNV-L82765-RDP-CA125-W2A-U-3000K

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	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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1093	1093	1093
5°	1098	1087	1092
10°	1095	1087	1092
15°	1090	1084	1092
20°	1082	1082	1090
25°	1077	1077	1091
30°	1068	1074	1092
35°	1055	1070	1095
40°	1038	1068	1104
45°	1020	1067	1125
50°	991	1070	1150
55°	955	1084	1182
60°	907	1096	1208
65°	838	1109	1224
70°	745	1118	1095
75°	601	1004	876
80°	470	705	572
85°	321	204	145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.2
10°-20°	110.3	9.1
20°-30°	168.0	13.8
30°-40°	204.6	16.9
40°-50°	217.1	17.9
50°-60°	204.9	16.9
60°-70°	165.4	13.6
70°-80°	89.7	7.4
80°-90°	14.5	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°	316.8	26.1
0°-40°	521.4	43.0
0°-60°	943.3	77.8
0°-90°	1213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	404	39
15°	391	390	389	392	392	110
25°	363	362	363	366	367	167
35°	321	323	326	332	333	201
45°	268	272	280	291	296	206
55°	204	212	231	246	252	182
65°	132	148	174	188	192	130
75°	58	84	97	87	84	63
85°	10	11	7	6	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	406.3	406.3	406.3	406.3	406.3
2.5°	408.2	406.3	403.4	406.3	405.3
5°	406.3	405.3	402.5	405.3	404.4
7.5°	403.4	403.4	400.6	402.5	402.5
10°	400.6	399.6	397.7	400.6	399.6
12.5°	395.8	394.9	394.0	396.8	395.8
15°	391.1	390.2	389.2	392.1	392.1
17.5°	385.4	384.5	383.5	387.3	387.3
20°	377.9	377.9	377.9	381.6	380.7
22.5°	370.3	370.3	371.2	375.0	374.1
25°	362.7	361.8	362.7	366.5	367.4
27.5°	353.2	354.2	355.1	358.9	359.9
30°	343.8	344.7	345.7	350.4	351.3
32.5°	332.4	334.3	336.2	341.9	341.9
35°	321.0	322.9	325.8	332.4	333.3
37.5°	308.7	310.6	314.4	322.0	323.9
40°	295.5	298.3	304.0	311.6	314.4
42.5°	282.2	286.0	292.6	301.1	304.9
45°	268.0	271.8	280.3	290.7	295.5
47.5°	252.9	257.6	268.0	281.3	285.0
50°	236.8	243.4	255.7	269.9	274.6
52.5°	220.7	228.2	243.4	258.5	263.3
55°	203.6	212.1	231.1	246.2	251.9
57.5°	186.6	196.0	217.8	233.9	239.6
60°	168.6	179.9	203.6	219.7	224.4
62.5°	150.6	163.8	189.4	205.5	209.3
65°	131.6	147.7	174.2	188.5	192.2
67.5°	113.6	132.6	159.1	169.5	169.5
70°	94.7	115.5	142.1	144.9	139.2
72.5°	75.8	99.4	123.1	112.7	108.0
75°	57.8	84.3	96.6	87.1	84.3
77.5°	43.6	68.2	68.2	62.5	60.6
80°	30.3	52.1	45.5	39.8	36.9
82.5°	19.9	29.4	23.7	18.9	16.1
85°	10.4	11.4	6.6	5.7	4.7
87.5°	3.8	1.9	0.9	1.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)