

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: P307258

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA08-W2A-U-6500K**

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: P307258  
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-CA08-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 6500K 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**

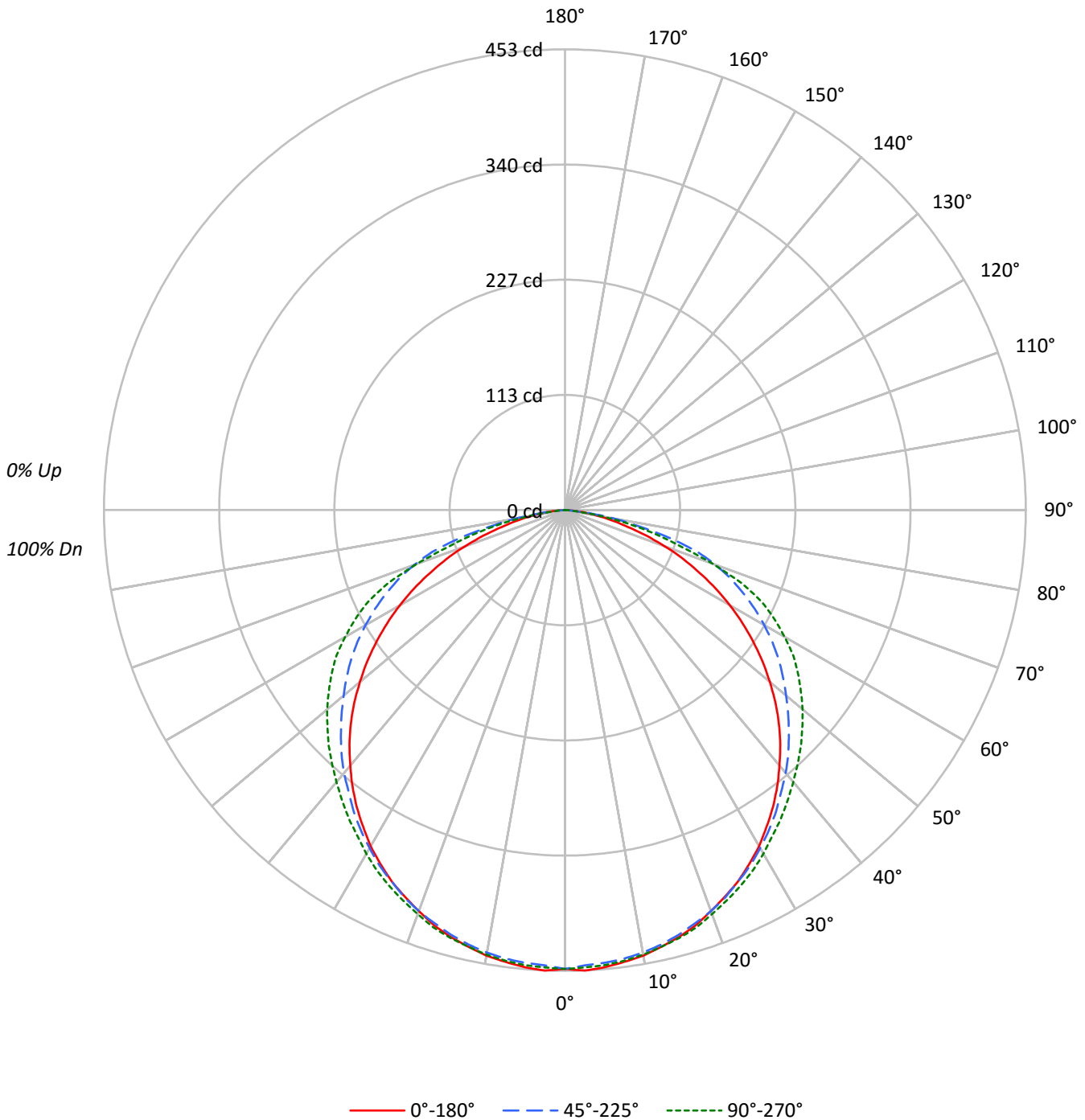
Lumens per Lamp: N/A  
Luminaire Lumens: 1347.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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				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°	1214	1214	1214
5°	1219	1207	1213
10°	1215	1207	1213
15°	1210	1204	1213
20°	1202	1202	1211
25°	1196	1196	1211
30°	1186	1193	1212
35°	1171	1189	1216
40°	1153	1186	1226
45°	1133	1185	1249
50°	1101	1189	1277
55°	1061	1204	1312
60°	1008	1217	1341
65°	931	1232	1359
70°	828	1241	1216
75°	666	1116	973
80°	522	783	635
85°	358	228	164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	3.2
10°-20°	122.5	9.1
20°-30°	186.6	13.8
30°-40°	227.2	16.9
40°-50°	241.1	17.9
50°-60°	227.5	16.9
60°-70°	183.7	13.6
70°-80°	99.6	7.4
80°-90°	16.1	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°	351.8	26.1
0°-40°	579.0	43.0
0°-60°	1047.5	77.8
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	451	450	447	450	449	43
15°	434	433	432	435	435	123
25°	403	402	403	407	408	185
35°	356	359	362	369	370	223
45°	298	302	311	323	328	229
55°	226	236	257	273	280	202
65°	146	164	194	209	214	145
75°	64	94	107	97	94	70
85°	12	13	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°	451.1	451.1	451.1	451.1	451.1
2.5°	453.2	451.1	448.0	451.1	450.1
5°	451.1	450.1	446.9	450.1	449.0
7.5°	448.0	448.0	444.8	446.9	446.9
10°	444.8	443.8	441.7	444.8	443.8
12.5°	439.6	438.5	437.5	440.6	439.6
15°	434.3	433.3	432.2	435.4	435.4
17.5°	428.0	427.0	425.9	430.1	430.1
20°	419.6	419.6	419.6	423.8	422.8
22.5°	411.2	411.2	412.2	416.4	415.4
25°	402.8	401.7	402.8	407.0	408.0
27.5°	392.3	393.3	394.4	398.6	399.6
30°	381.7	382.8	383.8	389.1	390.2
32.5°	369.1	371.2	373.3	379.6	379.6
35°	356.5	358.6	361.8	369.1	370.2
37.5°	342.8	344.9	349.1	357.6	359.7
40°	328.1	331.3	337.6	346.0	349.1
42.5°	313.4	317.6	325.0	334.4	338.6
45°	297.6	301.8	311.3	322.8	328.1
47.5°	280.8	286.0	297.6	312.3	316.5
50°	262.9	270.3	283.9	299.7	305.0
52.5°	245.0	253.4	270.3	287.1	292.4
55°	226.1	235.6	256.6	273.4	279.7
57.5°	207.2	217.7	241.9	259.7	266.1
60°	187.2	199.8	226.1	244.0	249.2
62.5°	167.2	181.9	210.3	228.2	232.4
65°	146.2	164.1	193.5	209.3	213.5
67.5°	126.2	147.2	176.7	188.2	188.2
70°	105.2	128.3	157.7	160.9	154.6
72.5°	84.1	110.4	136.7	125.1	119.9
75°	64.1	93.6	107.3	96.7	93.6
77.5°	48.4	75.7	75.7	69.4	67.3
80°	33.7	57.8	50.5	44.2	41.0
82.5°	22.1	32.6	26.3	21.0	17.9
85°	11.6	12.6	7.4	6.3	5.3
87.5°	4.2	2.1	1.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)