

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: P307295

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA08-W2A-U-2700K**

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: P307295  
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: 14FCZ2-25-UNV-L82765-RDP-CA08-W2A-U-2700K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 2700K 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**

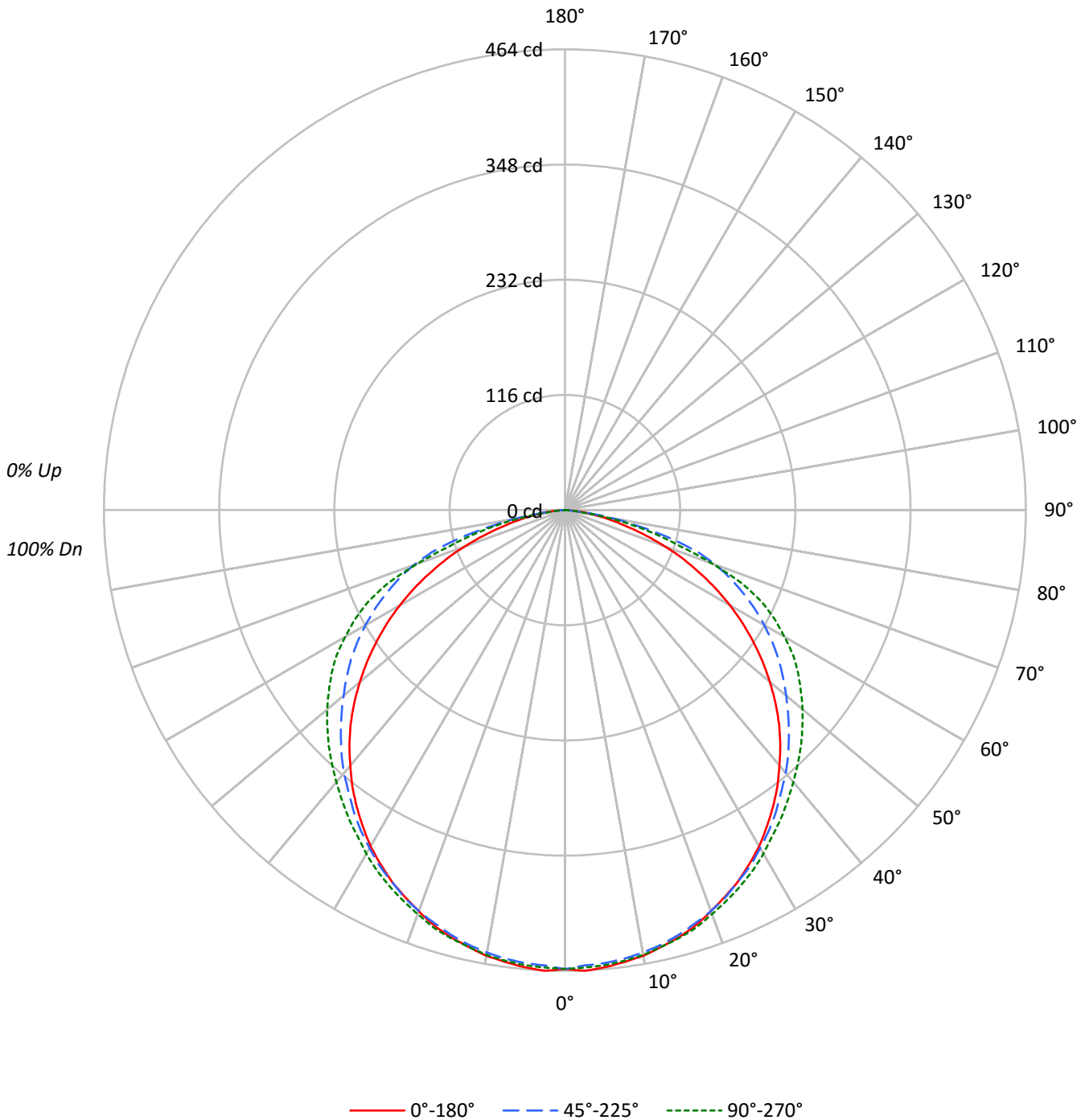
Lumens per Lamp: N/A  
Luminaire Lumens: 1380.0 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1244	1244	1244
5°	1249	1237	1243
10°	1245	1236	1242
15°	1240	1234	1243
20°	1231	1231	1240
25°	1225	1225	1241
30°	1215	1222	1242
35°	1200	1217	1246
40°	1181	1215	1257
45°	1160	1214	1279
50°	1127	1218	1308
55°	1087	1233	1345
60°	1032	1246	1374
65°	954	1262	1393
70°	847	1271	1246
75°	683	1143	997
80°	535	801	651
85°	367	232	167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	3.2
10°-20°	125.5	9.1
20°-30°	191.1	13.8
30°-40°	232.8	16.9
40°-50°	247.0	17.9
50°-60°	233.1	16.9
60°-70°	188.2	13.6
70°-80°	102.1	7.4
80°-90°	16.5	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°	360.4	26.1
0°-40°	593.2	43.0
0°-60°	1073.2	77.8
0°-90°	1380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	461	458	461	460	44
15°	445	444	443	446	446	126
25°	413	412	413	417	418	190
35°	365	367	371	378	379	228
45°	305	309	319	331	336	235
55°	232	241	263	280	287	207
65°	150	168	198	214	219	148
75°	66	96	110	99	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	462.2	462.2	462.2	462.2	462.2
2.5°	464.4	462.2	459.0	462.2	461.1
5°	462.2	461.1	457.9	461.1	460.0
7.5°	459.0	459.0	455.7	457.9	457.9
10°	455.7	454.7	452.5	455.7	454.7
12.5°	450.3	449.3	448.2	451.4	450.3
15°	445.0	443.9	442.8	446.0	446.0
17.5°	438.5	437.4	436.3	440.6	440.6
20°	429.9	429.9	429.9	434.2	433.1
22.5°	421.3	421.3	422.3	426.6	425.6
25°	412.6	411.6	412.6	416.9	418.0
27.5°	401.9	402.9	404.0	408.3	409.4
30°	391.1	392.2	393.2	398.6	399.7
32.5°	378.2	380.3	382.5	388.9	388.9
35°	365.2	367.4	370.6	378.2	379.2
37.5°	351.2	353.4	357.7	366.3	368.5
40°	336.1	339.4	345.8	354.5	357.7
42.5°	321.1	325.4	332.9	342.6	346.9
45°	304.9	309.2	318.9	330.8	336.1
47.5°	287.7	293.0	304.9	320.0	324.3
50°	269.3	276.9	290.9	307.1	312.4
52.5°	251.0	259.6	276.9	294.1	299.5
55°	231.6	241.3	262.9	280.1	286.6
57.5°	212.2	223.0	247.8	266.1	272.6
60°	191.8	204.7	231.6	250.0	255.3
62.5°	171.3	186.4	215.5	233.8	238.1
65°	149.8	168.1	198.2	214.4	218.7
67.5°	129.3	150.8	181.0	192.9	192.9
70°	107.7	131.4	161.6	164.8	158.4
72.5°	86.2	113.1	140.1	128.2	122.8
75°	65.7	95.9	109.9	99.1	95.9
77.5°	49.6	77.6	77.6	71.1	69.0
80°	34.5	59.3	51.7	45.3	42.0
82.5°	22.6	33.4	26.9	21.5	18.3
85°	11.9	12.9	7.5	6.5	5.4
87.5°	4.3	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)