

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: P307252

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA08-W2A-U-3500K**

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: P307252  
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-3500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET  
Light Source: (168) 3500K 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**

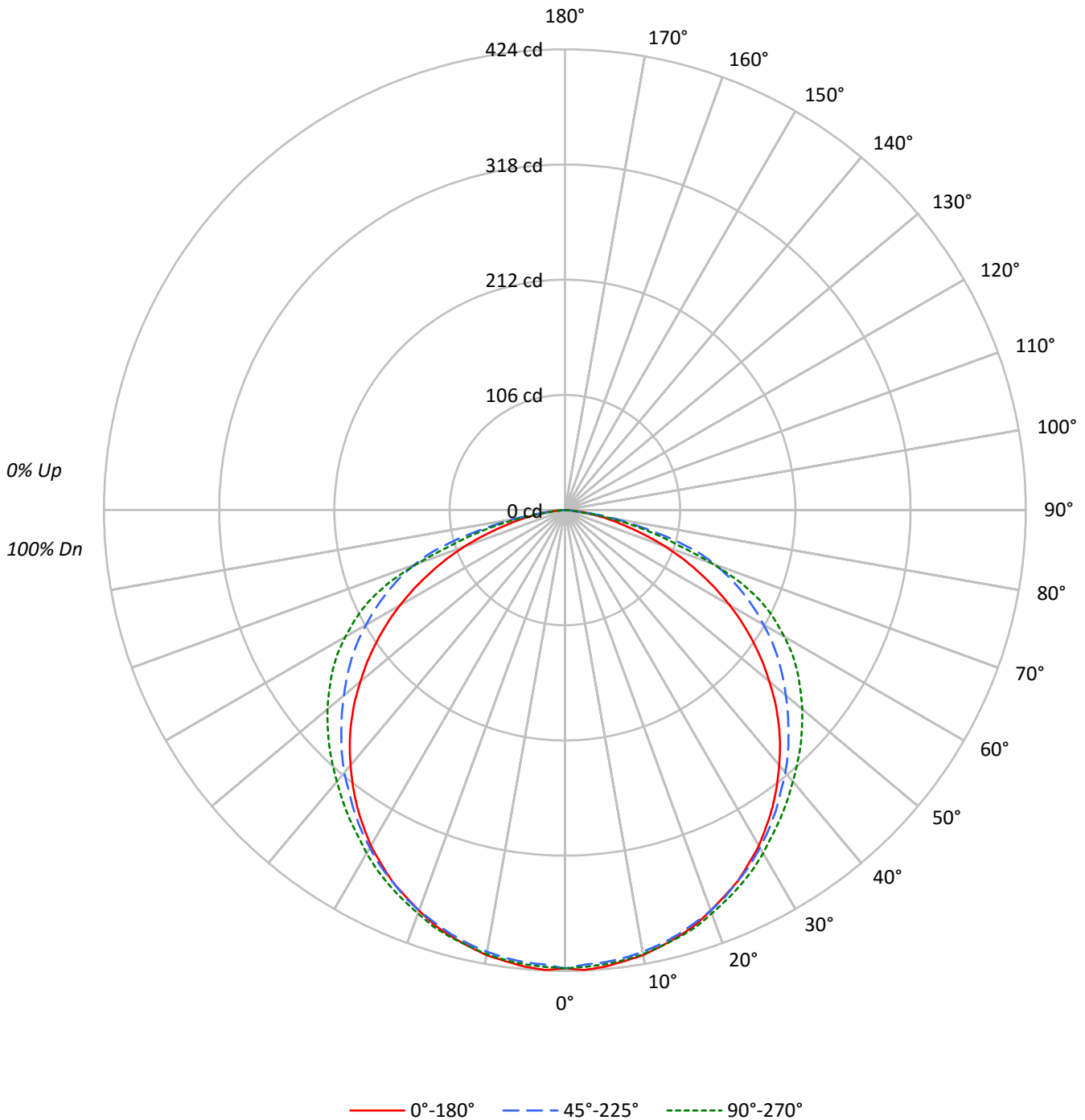
Lumens per Lamp: N/A  
Luminaire Lumens: 1259.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1135	1135	1135
5°	1139	1128	1134
10°	1136	1128	1133
15°	1131	1126	1134
20°	1123	1123	1131
25°	1118	1118	1132
30°	1109	1115	1133
35°	1095	1111	1137
40°	1077	1108	1146
45°	1059	1107	1167
50°	1029	1111	1193
55°	991	1125	1227
60°	942	1137	1254
65°	870	1152	1270
70°	773	1160	1137
75°	624	1043	910
80°	488	731	594
85°	333	213	151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	3.2
10°-20°	114.5	9.1
20°-30°	174.4	13.8
30°-40°	212.4	16.9
40°-50°	225.3	17.9
50°-60°	212.6	16.9
60°-70°	171.7	13.6
70°-80°	93.2	7.4
80°-90°	15.1	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°	328.8	26.1
0°-40°	541.2	43.0
0°-60°	979.1	77.8
0°-90°	1259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	422	421	418	421	420	40
15°	406	405	404	407	407	115
25°	376	376	376	380	381	173
35°	333	335	338	345	346	208
45°	278	282	291	302	307	214
55°	211	220	240	256	262	189
65°	137	153	181	196	200	135
75°	60	88	100	90	88	66
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	421.7	421.7	421.7	421.7	421.7
2.5°	423.6	421.7	418.7	421.7	420.7
5°	421.7	420.7	417.7	420.7	419.7
7.5°	418.7	418.7	415.8	417.7	417.7
10°	415.8	414.8	412.8	415.8	414.8
12.5°	410.9	409.9	408.9	411.8	410.9
15°	405.9	405.0	404.0	406.9	406.9
17.5°	400.0	399.1	398.1	402.0	402.0
20°	392.2	392.2	392.2	396.1	395.1
22.5°	384.3	384.3	385.3	389.2	388.3
25°	376.5	375.5	376.5	380.4	381.4
27.5°	366.6	367.6	368.6	372.5	373.5
30°	356.8	357.8	358.8	363.7	364.7
32.5°	345.0	347.0	348.9	354.8	354.8
35°	333.2	335.2	338.1	345.0	346.0
37.5°	320.4	322.4	326.3	334.2	336.2
40°	306.7	309.6	315.5	323.4	326.3
42.5°	292.9	296.8	303.7	312.6	316.5
45°	278.2	282.1	290.9	301.8	306.7
47.5°	262.4	267.4	278.2	291.9	295.9
50°	245.7	252.6	265.4	280.1	285.0
52.5°	229.0	236.9	252.6	268.3	273.3
55°	211.3	220.2	239.8	255.6	261.5
57.5°	193.6	203.5	226.1	242.8	248.7
60°	175.0	186.8	211.3	228.0	233.0
62.5°	156.3	170.0	196.6	213.3	217.2
65°	136.6	153.3	180.9	195.6	199.5
67.5°	117.9	137.6	165.1	175.9	175.9
70°	98.3	119.9	147.4	150.4	144.5
72.5°	78.6	103.2	127.8	117.0	112.1
75°	60.0	87.5	100.3	90.4	87.5
77.5°	45.2	70.8	70.8	64.9	62.9
80°	31.5	54.1	47.2	41.3	38.3
82.5°	20.6	30.5	24.6	19.7	16.7
85°	10.8	11.8	6.9	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)