

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: P307263

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-4500K**

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: P307263  
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-4500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET  
Light Source: (168) 4500K 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**

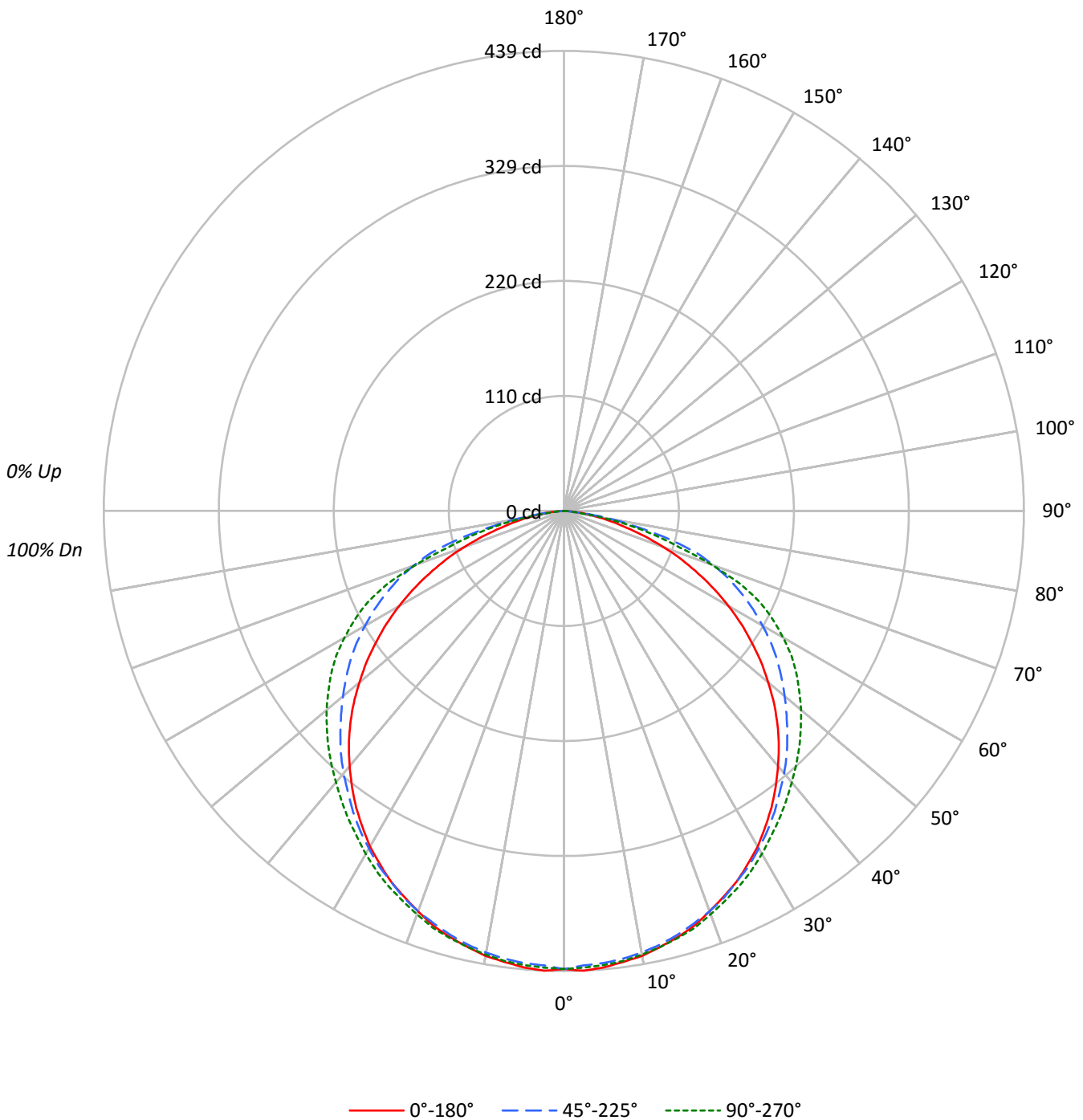
Lumens per Lamp: N/A  
Luminaire Lumens: 1305.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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-4500K

**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°	1176	1176	1176
5°	1181	1170	1175
10°	1178	1169	1175
15°	1172	1166	1175
20°	1164	1164	1173
25°	1159	1159	1174
30°	1149	1156	1175
35°	1135	1151	1178
40°	1117	1149	1188
45°	1097	1148	1210
50°	1066	1152	1237
55°	1027	1166	1271
60°	976	1179	1300
65°	902	1194	1317
70°	802	1202	1179
75°	646	1080	943
80°	505	758	615
85°	346	219	157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	3.2
10°-20°	118.7	9.1
20°-30°	180.7	13.8
30°-40°	220.1	16.9
40°-50°	233.5	17.9
50°-60°	220.4	16.9
60°-70°	178.0	13.6
70°-80°	96.5	7.4
80°-90°	15.6	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°	340.8	26.1
0°-40°	560.9	43.0
0°-60°	1014.9	77.8
0°-90°	1305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	437	436	433	436	435	42
15°	421	420	419	422	422	119
25°	390	389	390	394	395	180
35°	345	347	350	358	359	216
45°	288	292	302	313	318	222
55°	219	228	249	265	271	196
65°	142	159	188	203	207	140
75°	62	91	104	94	91	68
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°	437.1	437.1	437.1	437.1	437.1
2.5°	439.1	437.1	434.0	437.1	436.1
5°	437.1	436.1	433.0	436.1	435.0
7.5°	434.0	434.0	431.0	433.0	433.0
10°	431.0	429.9	427.9	431.0	429.9
12.5°	425.9	424.9	423.8	426.9	425.9
15°	420.8	419.8	418.7	421.8	421.8
17.5°	414.7	413.6	412.6	416.7	416.7
20°	406.5	406.5	406.5	410.6	409.6
22.5°	398.4	398.4	399.4	403.5	402.4
25°	390.2	389.2	390.2	394.3	395.3
27.5°	380.0	381.0	382.1	386.1	387.2
30°	369.8	370.9	371.9	377.0	378.0
32.5°	357.6	359.6	361.7	367.8	367.8
35°	345.4	347.4	350.5	357.6	358.6
37.5°	332.1	334.2	338.3	346.4	348.4
40°	317.9	320.9	327.0	335.2	338.3
42.5°	303.6	307.7	314.8	324.0	328.1
45°	288.3	292.4	301.6	312.8	317.9
47.5°	272.0	277.1	288.3	302.6	306.7
50°	254.7	261.8	275.1	290.4	295.5
52.5°	237.4	245.5	261.8	278.1	283.2
55°	219.0	228.2	248.6	264.9	271.0
57.5°	200.7	210.9	234.3	251.7	257.8
60°	181.4	193.6	219.0	236.4	241.5
62.5°	162.0	176.3	203.8	221.1	225.2
65°	141.6	158.9	187.5	202.7	206.8
67.5°	122.3	142.6	171.2	182.4	182.4
70°	101.9	124.3	152.8	155.9	149.8
72.5°	81.5	107.0	132.4	121.2	116.1
75°	62.1	90.7	103.9	93.7	90.7
77.5°	46.9	73.4	73.4	67.2	65.2
80°	32.6	56.0	48.9	42.8	39.7
82.5°	21.4	31.6	25.5	20.4	17.3
85°	11.2	12.2	7.1	6.1	5.1
87.5°	4.1	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)