

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: P307362

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP125-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: P307362  
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: 14FCZ2-29-UNV-L82765-RDP-CP125-W2A-U-4500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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**

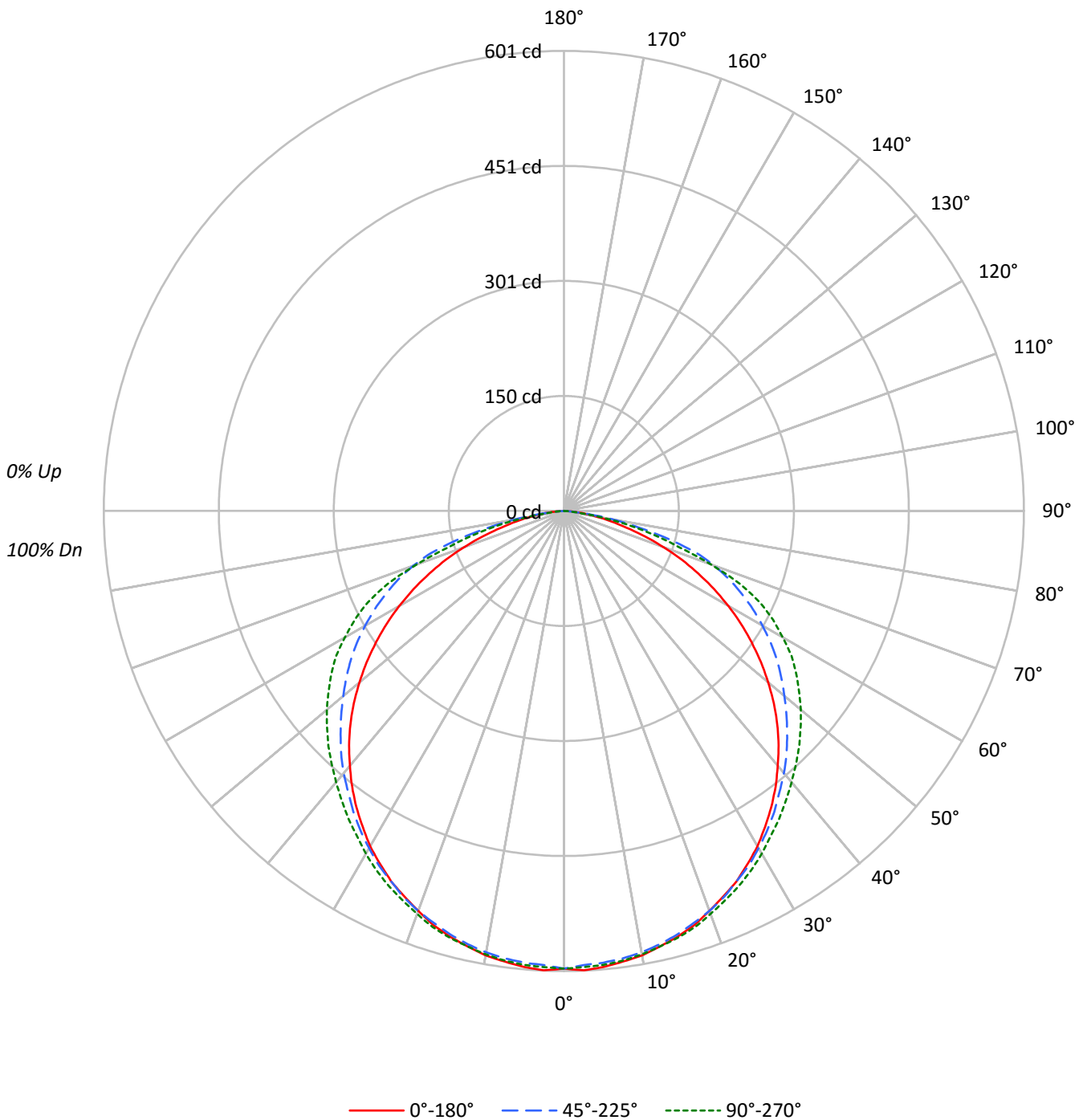
Lumens per Lamp: N/A  
Luminaire Lumens: 1785.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1609	1609	1609
5°	1615	1600	1608
10°	1611	1599	1607
15°	1603	1596	1607
20°	1592	1592	1604
25°	1585	1585	1605
30°	1572	1581	1606
35°	1552	1575	1611
40°	1527	1571	1625
45°	1501	1570	1655
50°	1459	1575	1692
55°	1406	1595	1739
60°	1335	1612	1778
65°	1233	1633	1801
70°	1097	1644	1612
75°	884	1477	1289
80°	691	1037	841
85°	472	303	216



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	3.2
10°-20°	162.3	9.1
20°-30°	247.2	13.8
30°-40°	301.1	16.9
40°-50°	319.5	17.9
50°-60°	301.5	16.9
60°-70°	243.4	13.6
70°-80°	132.0	7.4
80°-90°	21.4	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°	466.1	26.1
0°-40°	767.2	43.0
0°-60°	1388.2	77.8
0°-90°	1785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	596	592	596	595	57
15°	576	574	573	577	577	162
25°	534	532	534	539	541	246
35°	472	475	479	489	490	295
45°	394	400	412	428	435	304
55°	300	312	340	362	371	268
65°	194	217	256	277	283	192
75°	85	124	142	128	124	93
85°	15	17	10	8	7	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	597.8	597.8	597.8	597.8	597.8
2.5°	600.6	597.8	593.7	597.8	596.4
5°	597.8	596.4	592.3	596.4	595.1
7.5°	593.7	593.7	589.5	592.3	592.3
10°	589.5	588.1	585.3	589.5	588.1
12.5°	582.5	581.1	579.7	583.9	582.5
15°	575.5	574.2	572.8	576.9	576.9
17.5°	567.2	565.8	564.4	570.0	570.0
20°	556.0	556.0	556.0	561.6	560.2
22.5°	544.9	544.9	546.3	551.9	550.5
25°	533.7	532.3	533.7	539.3	540.7
27.5°	519.8	521.2	522.6	528.2	529.6
30°	505.9	507.3	508.7	515.6	517.0
32.5°	489.1	491.9	494.7	503.1	503.1
35°	472.4	475.2	479.4	489.1	490.5
37.5°	454.3	457.1	462.7	473.8	476.6
40°	434.8	439.0	447.3	458.5	462.7
42.5°	415.3	420.9	430.6	443.2	448.7
45°	394.4	400.0	412.5	427.8	434.8
47.5°	372.1	379.1	394.4	413.9	419.5
50°	348.4	358.1	376.3	397.2	404.1
52.5°	324.7	335.9	358.1	380.4	387.4
55°	299.6	312.2	340.0	362.3	370.7
57.5°	274.5	288.5	320.5	344.2	352.6
60°	248.1	264.8	299.6	323.3	330.3
62.5°	221.6	241.1	278.7	302.4	308.0
65°	193.7	217.4	256.4	277.3	282.9
67.5°	167.2	195.1	234.1	249.4	249.4
70°	139.4	170.0	209.0	213.2	204.9
72.5°	111.5	146.3	181.2	165.8	158.9
75°	85.0	124.0	142.1	128.2	124.0
77.5°	64.1	100.3	100.3	92.0	89.2
80°	44.6	76.6	66.9	58.5	54.3
82.5°	29.3	43.2	34.8	27.9	23.7
85°	15.3	16.7	9.8	8.4	7.0
87.5°	5.6	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)