

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: P307543

Luminaire Tested: **14FCZ2-20-UNV-L82765-CP125-W2A-U-5000K**

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: P307543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
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-CP125-W2A-U-5000K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 5000K 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**

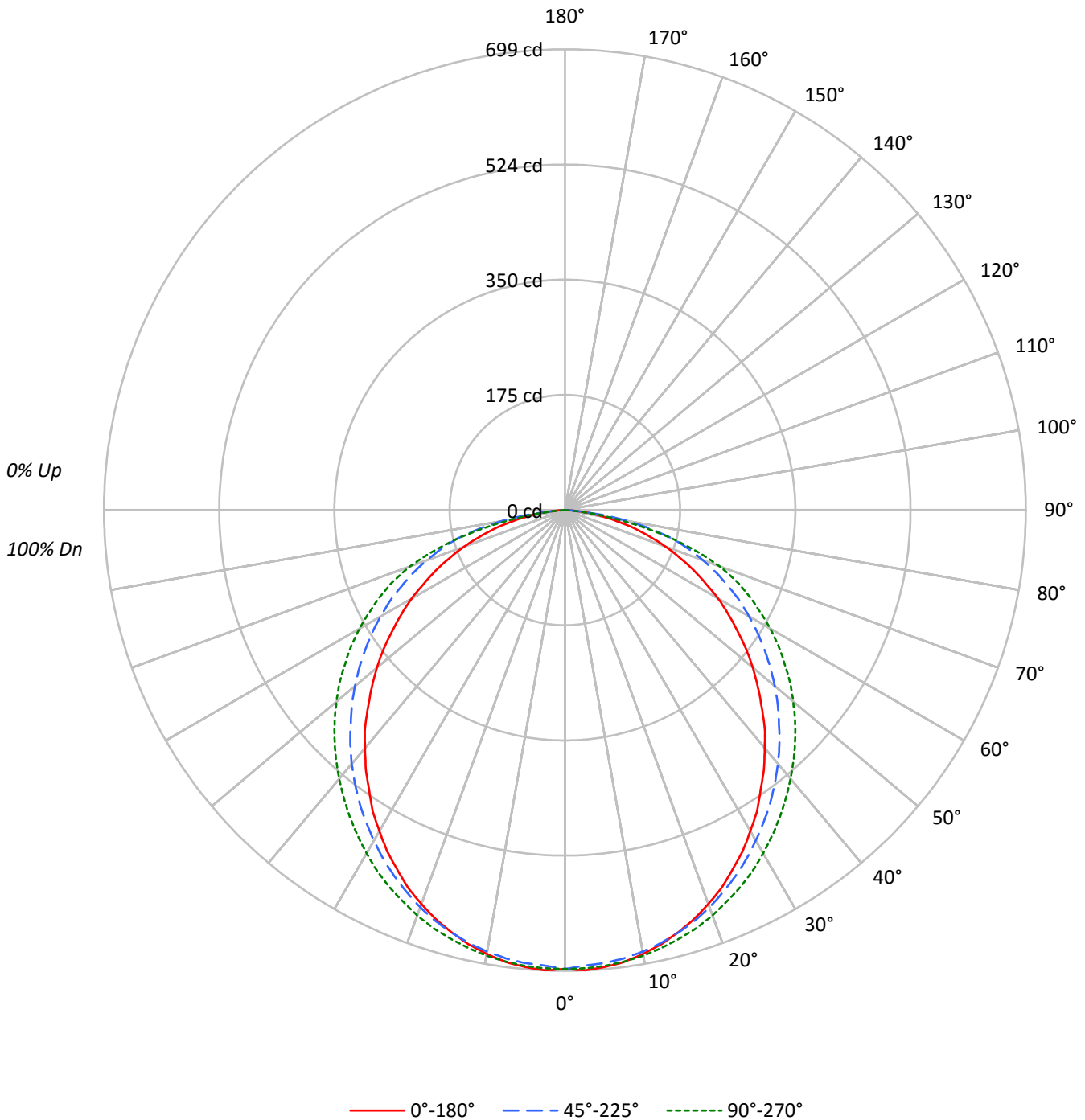
Lumens per Lamp: N/A  
Luminaire Lumens: 2021.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1873	1873	1873
5°	1880	1864	1875
10°	1868	1858	1875
15°	1848	1849	1874
20°	1821	1836	1874
25°	1786	1818	1872
30°	1748	1799	1868
35°	1701	1784	1867
40°	1656	1767	1870
45°	1605	1748	1880
50°	1558	1739	1892
55°	1499	1734	1909
60°	1446	1737	1935
65°	1372	1741	1966
70°	1287	1755	1965
75°	1167	1771	1776
80°	956	1530	1265
85°	710	722	293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	3.3
10°-20°	188.2	9.3
20°-30°	283.5	14.0
30°-40°	340.2	16.8
40°-50°	354.6	17.5
50°-60°	328.3	16.2
60°-70°	265.2	13.1
70°-80°	161.7	8.0
80°-90°	33.4	1.7
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°	537.6	26.6
0°-40°	877.8	43.4
0°-60°	1560.6	77.2
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	696	694	690	695	694	66
15°	663	664	664	673	673	187
25°	602	605	612	628	630	277
35°	518	526	543	563	568	324
45°	422	434	459	485	494	326
55°	320	336	370	398	407	286
65°	215	237	274	301	309	213
75°	112	137	170	173	171	118
85°	23	34	23	13	10	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	696.2	696.2	696.2	696.2	696.2
2.5°	698.9	696.7	691.7	696.7	695.8
5°	695.8	694.0	689.9	694.9	694.0
7.5°	691.3	689.5	685.9	691.7	690.8
10°	683.6	682.7	680.0	686.8	686.3
12.5°	674.6	674.2	672.8	680.5	680.0
15°	663.3	663.8	663.8	672.8	672.8
17.5°	650.7	651.6	653.4	663.3	664.7
20°	635.9	637.7	641.3	652.5	654.3
22.5°	620.5	621.9	627.3	640.8	642.6
25°	601.6	605.2	612.4	627.7	630.4
27.5°	583.6	586.7	596.6	612.4	616.9
30°	562.4	567.4	579.1	596.2	601.2
32.5°	542.1	547.5	561.0	580.9	585.4
35°	517.8	525.9	543.0	562.9	568.3
37.5°	495.7	503.4	522.7	544.4	550.7
40°	471.4	480.8	502.9	525.9	532.2
42.5°	448.8	457.9	481.7	505.2	513.7
45°	421.8	434.4	459.2	484.9	493.9
47.5°	397.0	409.6	438.0	465.5	473.6
50°	372.2	385.7	415.5	443.9	452.0
52.5°	346.5	361.0	393.0	421.3	430.8
55°	319.5	336.2	369.5	398.4	406.9
57.5°	293.8	310.9	346.5	375.8	384.4
60°	268.6	286.2	322.7	350.6	359.6
62.5°	240.6	261.4	299.2	326.7	333.5
65°	215.4	236.6	273.5	301.0	308.7
67.5°	188.8	211.8	248.8	274.0	281.2
70°	163.6	187.5	223.1	246.5	249.7
72.5°	136.5	160.9	196.9	211.8	211.8
75°	112.2	137.0	170.3	173.0	170.8
77.5°	85.6	113.1	134.7	129.3	123.9
80°	61.7	88.8	98.7	88.8	81.6
82.5°	41.5	64.4	59.5	47.3	41.9
85°	23.0	34.2	23.4	13.1	9.5
87.5°	8.6	7.7	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)