

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: P307854

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP125-W2A-U-3000K**

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: P307854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
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-S-CP125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 3000K 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**

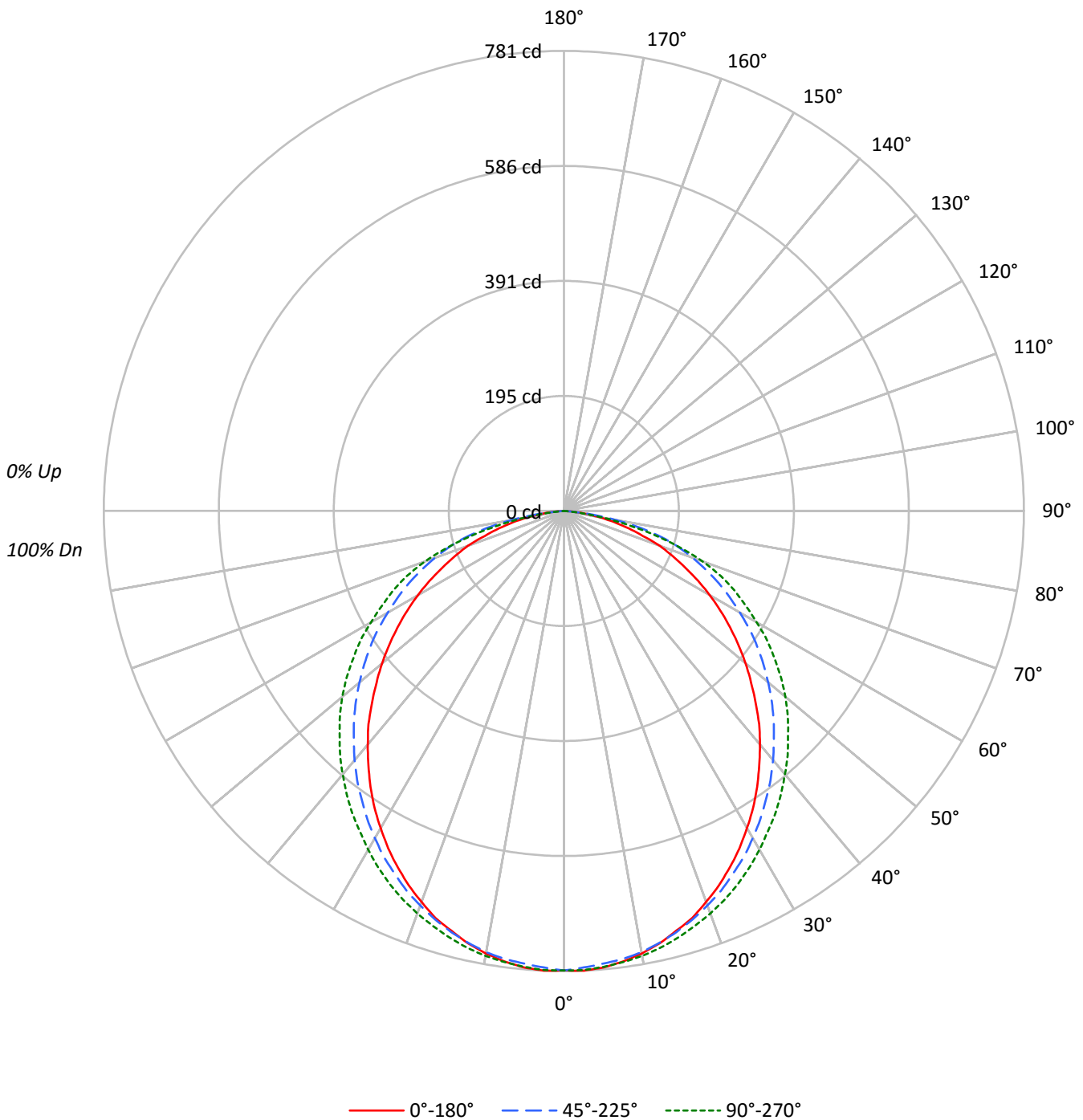
Lumens per Lamp: N/A  
Luminaire Lumens: 2185.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2099	2099	2099
5°	2101	2083	2098
10°	2084	2078	2096
15°	2055	2061	2089
20°	2023	2041	2082
25°	1981	2017	2075
30°	1932	1993	2064
35°	1879	1964	2057
40°	1819	1941	2051
45°	1752	1917	2049
50°	1687	1896	2055
55°	1616	1880	2048
60°	1539	1854	2035
65°	1449	1848	2035
70°	1364	1832	1977
75°	1183	1791	1690
80°	958	1444	1125
85°	636	503	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	3.4
10°-20°	209.6	9.6
20°-30°	314.4	14.4
30°-40°	375.0	17.2
40°-50°	387.7	17.7
50°-60°	354.0	16.2
60°-70°	278.6	12.7
70°-80°	162.2	7.4
80°-90°	29.9	1.4
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°	597.6	27.4
0°-40°	972.7	44.5
0°-60°	1714.4	78.5
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	776	771	778	777	74
15°	738	739	740	750	750	208
25°	667	671	679	696	699	307
35°	572	580	598	621	626	358
45°	460	476	504	532	538	356
55°	344	363	401	430	437	308
65°	228	251	290	313	320	226
75°	114	141	172	169	162	121
85°	21	29	16	13	11	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	781.1	778.9	775.7	781.1	780.0
5°	777.8	775.7	771.3	777.8	776.8
7.5°	771.3	769.2	767.0	773.5	772.4
10°	762.7	761.6	760.5	768.1	767.0
12.5°	751.8	751.8	750.8	759.4	759.4
15°	737.8	738.8	739.9	749.7	749.7
17.5°	724.8	723.7	726.9	737.8	738.8
20°	706.3	708.5	712.8	725.8	726.9
22.5°	687.9	690.1	697.7	710.7	713.9
25°	667.3	670.6	679.3	695.5	698.8
27.5°	645.7	650.0	661.9	679.3	682.5
30°	621.8	628.3	641.3	660.8	664.1
32.5°	598.0	604.5	620.8	640.3	644.6
35°	572.0	579.6	598.0	620.8	626.2
37.5°	544.9	554.7	576.3	599.1	605.6
40°	517.8	528.7	552.5	576.3	583.9
42.5°	490.8	501.6	527.6	554.7	562.3
45°	460.4	475.6	503.8	531.9	538.4
47.5°	431.2	447.4	478.8	507.0	515.7
50°	403.0	419.3	452.8	482.1	490.8
52.5°	373.8	391.1	426.8	457.2	464.8
55°	344.5	362.9	400.8	430.1	436.6
57.5°	315.3	334.8	373.8	401.9	409.5
60°	286.0	306.6	344.5	372.7	378.1
62.5°	256.8	278.4	317.4	342.3	347.8
65°	227.5	251.3	290.3	313.1	319.6
67.5°	199.3	223.2	261.1	282.8	288.2
70°	173.3	195.0	232.9	249.2	251.3
72.5°	140.8	167.9	204.8	213.4	208.0
75°	113.8	140.8	172.3	169.0	162.5
77.5°	86.7	113.8	134.3	123.5	114.8
80°	61.8	88.8	93.2	76.9	72.6
82.5°	40.1	61.8	52.0	40.1	32.5
85°	20.6	29.3	16.3	13.0	10.8
87.5°	6.5	4.3	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)