

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: P307858

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-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: P307858  
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-5000K  
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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**

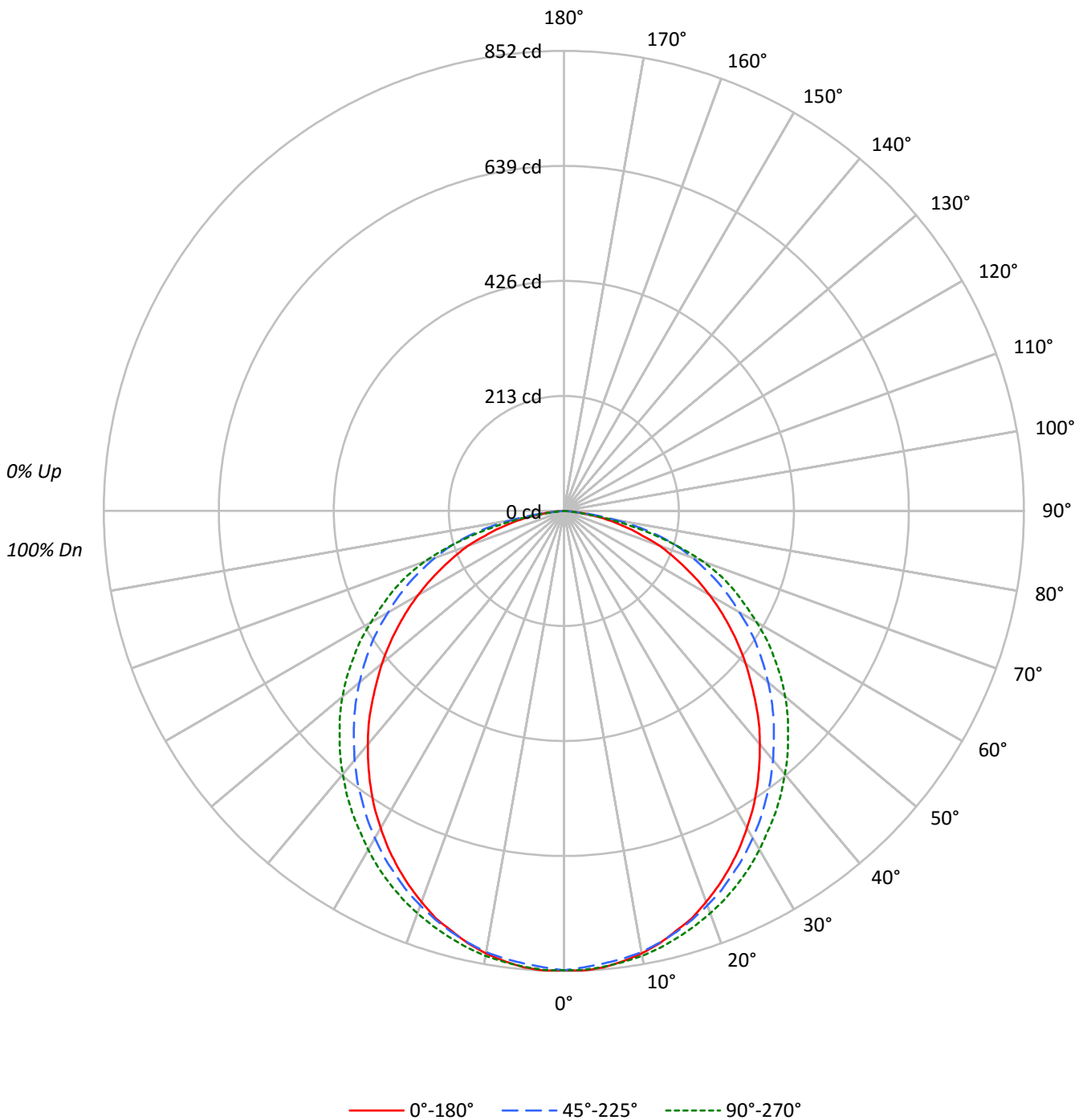
Lumens per Lamp: N/A  
Luminaire Lumens: 2383.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2289	2289	2289
5°	2291	2272	2288
10°	2273	2266	2286
15°	2242	2248	2278
20°	2206	2226	2270
25°	2161	2200	2263
30°	2107	2174	2251
35°	2049	2143	2243
40°	1984	2117	2237
45°	1911	2091	2235
50°	1840	2068	2241
55°	1763	2051	2234
60°	1679	2022	2219
65°	1580	2016	2219
70°	1487	1998	2157
75°	1290	1954	1842
80°	1043	1574	1227
85°	692	546	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	3.4
10°-20°	228.6	9.6
20°-30°	342.9	14.4
30°-40°	409.0	17.2
40°-50°	422.8	17.7
50°-60°	386.1	16.2
60°-70°	303.8	12.7
70°-80°	176.9	7.4
80°-90°	32.6	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°	651.8	27.4
0°-40°	1060.8	44.5
0°-60°	1869.7	78.5
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	848	846	841	848	847	80
15°	805	806	807	818	818	227
25°	728	731	741	758	762	335
35°	624	632	652	677	683	390
45°	502	519	549	580	587	388
55°	376	396	437	469	476	336
65°	248	274	317	342	348	246
75°	124	154	188	184	177	132
85°	22	32	18	14	12	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	850.7	850.7	850.7	850.7	850.7
2.5°	851.9	849.5	846.0	851.9	850.7
5°	848.3	846.0	841.2	848.3	847.1
7.5°	841.2	838.9	836.5	843.6	842.4
10°	831.8	830.6	829.4	837.7	836.5
12.5°	820.0	820.0	818.8	828.2	828.2
15°	804.6	805.8	807.0	817.6	817.6
17.5°	790.4	789.3	792.8	804.6	805.8
20°	770.3	772.7	777.4	791.6	792.8
22.5°	750.3	752.6	760.9	775.1	778.6
25°	727.8	731.4	740.8	758.5	762.1
27.5°	704.2	708.9	721.9	740.8	744.4
30°	678.2	685.3	699.5	720.7	724.3
32.5°	652.2	659.3	677.0	698.3	703.0
35°	623.8	632.1	652.2	677.0	682.9
37.5°	594.3	604.9	628.6	653.4	660.5
40°	564.8	576.6	602.6	628.6	636.8
42.5°	535.2	547.0	575.4	604.9	613.2
45°	502.1	518.7	549.4	580.1	587.2
47.5°	470.2	488.0	522.2	552.9	562.4
50°	439.5	457.2	493.9	525.8	535.2
52.5°	407.6	426.5	465.5	498.6	506.9
55°	375.7	395.8	437.2	469.1	476.2
57.5°	343.8	365.1	407.6	438.3	446.6
60°	311.9	334.4	375.7	406.4	412.3
62.5°	280.0	303.6	346.2	373.4	379.3
65°	248.1	274.1	316.6	341.5	348.5
67.5°	217.4	243.4	284.7	308.4	314.3
70°	189.0	212.7	254.0	271.7	274.1
72.5°	153.6	183.1	223.3	232.8	226.9
75°	124.1	153.6	187.9	184.3	177.2
77.5°	94.5	124.1	146.5	134.7	125.2
80°	67.3	96.9	101.6	83.9	79.2
82.5°	43.7	67.3	56.7	43.7	35.4
85°	22.4	31.9	17.7	14.2	11.8
87.5°	7.1	4.7	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)