

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: P307588

Luminaire Tested: **14FCZ2-25-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: P307588  
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: 14FCZ2-25-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**

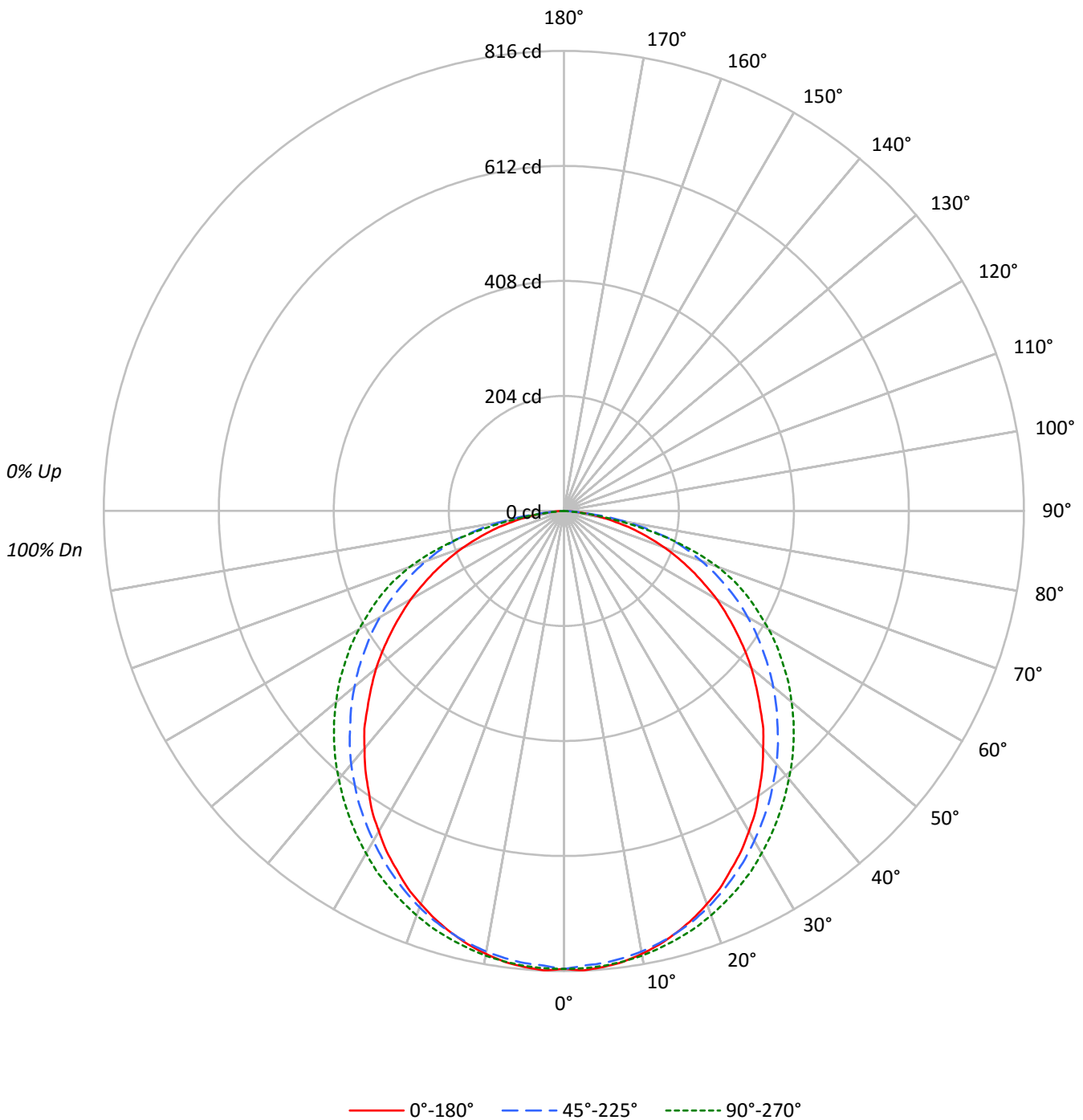
Lumens per Lamp: N/A  
Luminaire Lumens: 2358.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	2186	2186	2186
5°	2193	2175	2187
10°	2179	2168	2188
15°	2156	2158	2187
20°	2125	2143	2186
25°	2084	2121	2184
30°	2039	2099	2179
35°	1985	2081	2178
40°	1932	2061	2181
45°	1873	2039	2193
50°	1818	2030	2208
55°	1749	2023	2228
60°	1687	2026	2258
65°	1600	2032	2294
70°	1502	2048	2292
75°	1361	2066	2072
80°	1116	1784	1475
85°	827	843	340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.3
10°-20°	219.6	9.3
20°-30°	330.8	14.0
30°-40°	396.9	16.8
40°-50°	413.7	17.5
50°-60°	383.0	16.2
60°-70°	309.5	13.1
70°-80°	188.7	8.0
80°-90°	38.9	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°	627.2	26.6
0°-40°	1024.2	43.4
0°-60°	1820.9	77.2
0°-90°	2358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	812	810	805	811	810	77
15°	774	774	774	785	785	218
25°	702	706	714	732	736	324
35°	604	614	634	657	663	378
45°	492	507	536	566	576	380
55°	373	392	431	465	475	334
65°	251	276	319	351	360	249
75°	131	160	199	202	199	137
85°	27	40	27	15	11	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	812.3	812.3	812.3	812.3	812.3
2.5°	815.5	812.9	807.1	812.9	811.8
5°	811.8	809.7	805.0	810.8	809.7
7.5°	806.6	804.5	800.2	807.1	806.0
10°	797.6	796.6	793.4	801.3	800.8
12.5°	787.1	786.6	785.0	793.9	793.4
15°	774.0	774.5	774.5	785.0	785.0
17.5°	759.2	760.3	762.4	774.0	775.5
20°	741.9	744.0	748.2	761.3	763.4
22.5°	724.0	725.6	731.9	747.7	749.8
25°	701.9	706.1	714.5	732.4	735.6
27.5°	680.9	684.6	696.1	714.5	719.8
30°	656.2	662.0	675.6	695.6	701.4
32.5°	632.5	638.8	654.6	677.7	683.0
35°	604.1	613.6	633.6	656.7	663.0
37.5°	578.4	587.3	609.9	635.1	642.5
40°	550.0	561.0	586.8	613.6	621.0
42.5°	523.7	534.2	562.1	589.4	599.4
45°	492.1	506.9	535.8	565.7	576.3
47.5°	463.2	477.9	511.1	543.1	552.6
50°	434.3	450.1	484.8	517.9	527.4
52.5°	404.3	421.2	458.5	491.6	502.7
55°	372.8	392.2	431.1	464.8	474.8
57.5°	342.8	362.8	404.3	438.5	448.5
60°	313.4	333.9	376.5	409.1	419.6
62.5°	280.8	305.0	349.1	381.2	389.1
65°	251.3	276.0	319.2	351.2	360.2
67.5°	220.3	247.1	290.2	319.7	328.1
70°	190.9	218.7	260.3	287.6	291.3
72.5°	159.3	187.7	229.8	247.1	247.1
75°	130.9	159.8	198.7	201.9	199.3
77.5°	99.9	132.0	157.2	150.9	144.6
80°	72.0	103.6	115.1	103.6	95.2
82.5°	48.4	75.2	69.4	55.2	48.9
85°	26.8	40.0	27.3	15.2	11.0
87.5°	10.0	8.9	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)