

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: P307228

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-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: P307228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-44-UNV-L82765-HRP-CP125-W2A-U-5000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. 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**

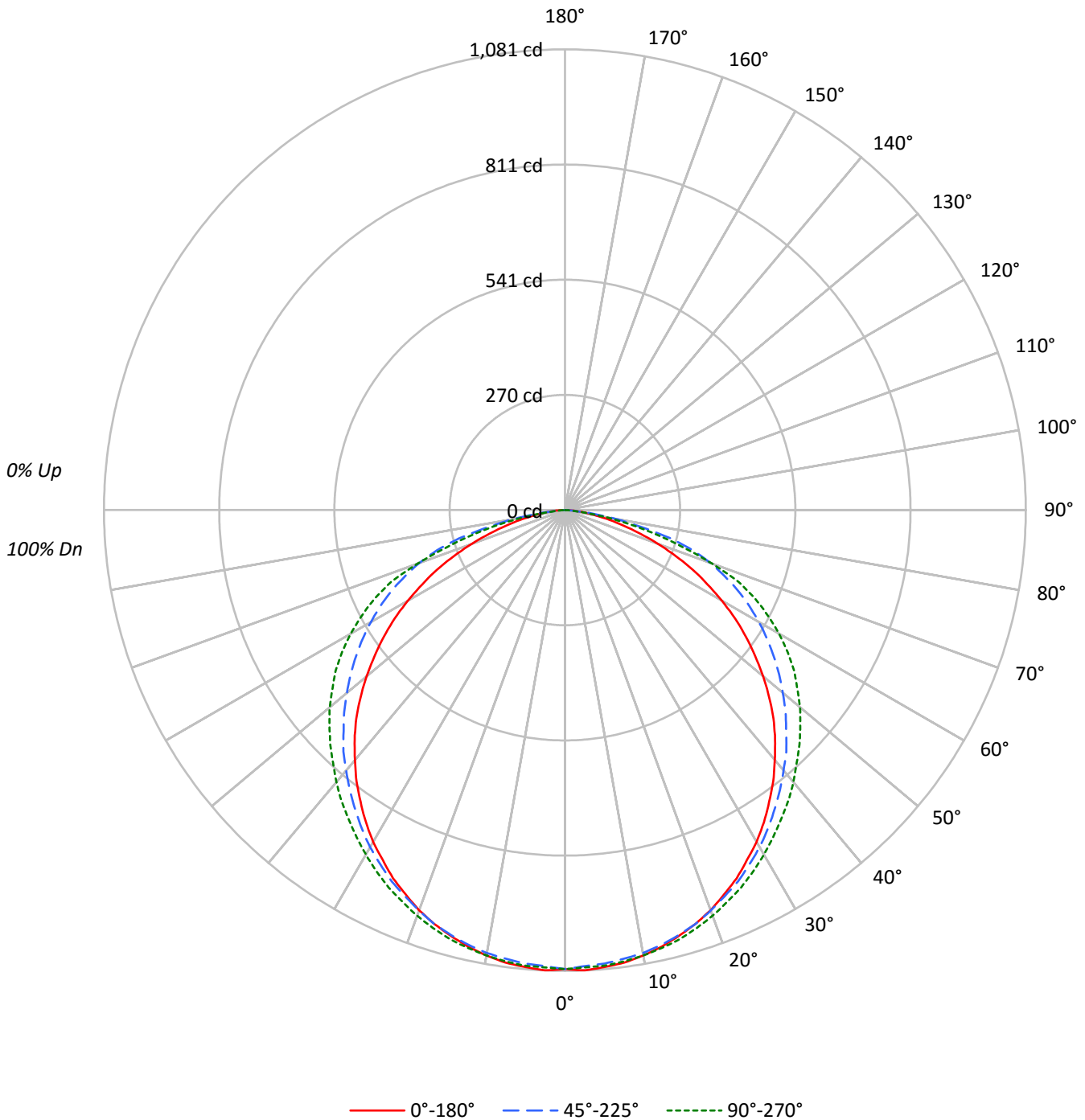
Lumens per Lamp: N/A  
Luminaire Lumens: 3171.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2898	2898	2898
5°	2906	2885	2898
10°	2899	2883	2899
15°	2881	2875	2903
20°	2861	2864	2901
25°	2830	2854	2901
30°	2795	2838	2900
35°	2745	2817	2905
40°	2690	2802	2928
45°	2633	2793	2960
50°	2542	2793	3014
55°	2433	2807	3078
60°	2286	2828	3118
65°	2108	2857	3137
70°	1836	2863	2887
75°	1514	2665	2333
80°	1190	1915	1561
85°	923	738	371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	3.2
10°-20°	292.5	9.2
20°-30°	444.3	14.0
30°-40°	538.3	17.0
40°-50°	567.2	17.9
50°-60°	529.6	16.7
60°-70°	423.2	13.3
70°-80°	232.9	7.3
80°-90°	41.1	1.3
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°	838.8	26.5
0°-40°	1377.1	43.4
0°-60°	2473.9	78.0
0°-90°	3171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1076	1073	1068	1075	1073	102
15°	1034	1034	1032	1042	1042	292
25°	953	955	961	975	977	439
35°	836	844	858	880	884	523
45°	692	705	734	767	778	532
55°	518	544	598	640	656	463
65°	331	373	449	486	493	326
75°	146	208	256	230	224	157
85°	30	38	24	15	12	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1076.9	1076.9	1076.9	1076.9	1076.9
2.5°	1080.9	1077.9	1070.9	1076.9	1073.9
5°	1075.9	1072.9	1067.9	1074.9	1072.9
7.5°	1070.9	1066.9	1061.9	1069.9	1067.9
10°	1060.9	1057.9	1055.0	1061.9	1060.9
12.5°	1049.0	1048.0	1045.0	1053.0	1052.0
15°	1034.0	1034.0	1032.0	1042.0	1042.0
17.5°	1018.1	1017.1	1018.1	1029.0	1028.0
20°	999.1	999.1	1000.1	1013.1	1013.1
22.5°	976.2	977.2	980.2	996.1	995.1
25°	953.2	955.2	961.2	975.2	977.2
27.5°	925.3	930.3	937.3	954.2	956.2
30°	899.4	902.4	913.4	929.3	933.3
32.5°	868.5	874.5	886.4	904.4	909.4
35°	835.6	843.6	857.5	879.5	884.4
37.5°	802.7	809.7	828.6	851.5	860.5
40°	765.8	777.8	797.7	823.6	833.6
42.5°	729.9	741.9	768.8	795.7	804.7
45°	692.0	705.0	733.9	766.8	777.8
47.5°	650.1	665.1	702.0	736.9	748.8
50°	607.2	626.2	667.1	706.0	719.9
52.5°	562.4	586.3	633.2	674.1	687.0
55°	518.5	544.4	598.3	640.1	656.1
57.5°	473.6	501.6	562.4	610.2	619.2
60°	424.8	458.7	525.5	567.4	579.3
62.5°	376.9	415.8	487.6	527.5	537.4
65°	331.0	372.9	448.7	485.6	492.6
67.5°	281.2	331.0	405.8	439.7	441.7
70°	233.3	291.2	363.9	379.9	366.9
72.5°	186.5	248.3	315.1	302.1	291.2
75°	145.6	208.4	256.3	230.3	224.4
77.5°	107.7	170.5	183.5	169.5	158.5
80°	76.8	134.6	123.6	105.7	100.7
82.5°	52.8	84.8	67.8	52.8	45.9
85°	29.9	37.9	23.9	15.0	12.0
87.5°	13.0	9.0	5.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)