

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: P307899

Luminaire Tested: **14FCZ2-29-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: P307899
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: 14FCZ2-29-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: 2612.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

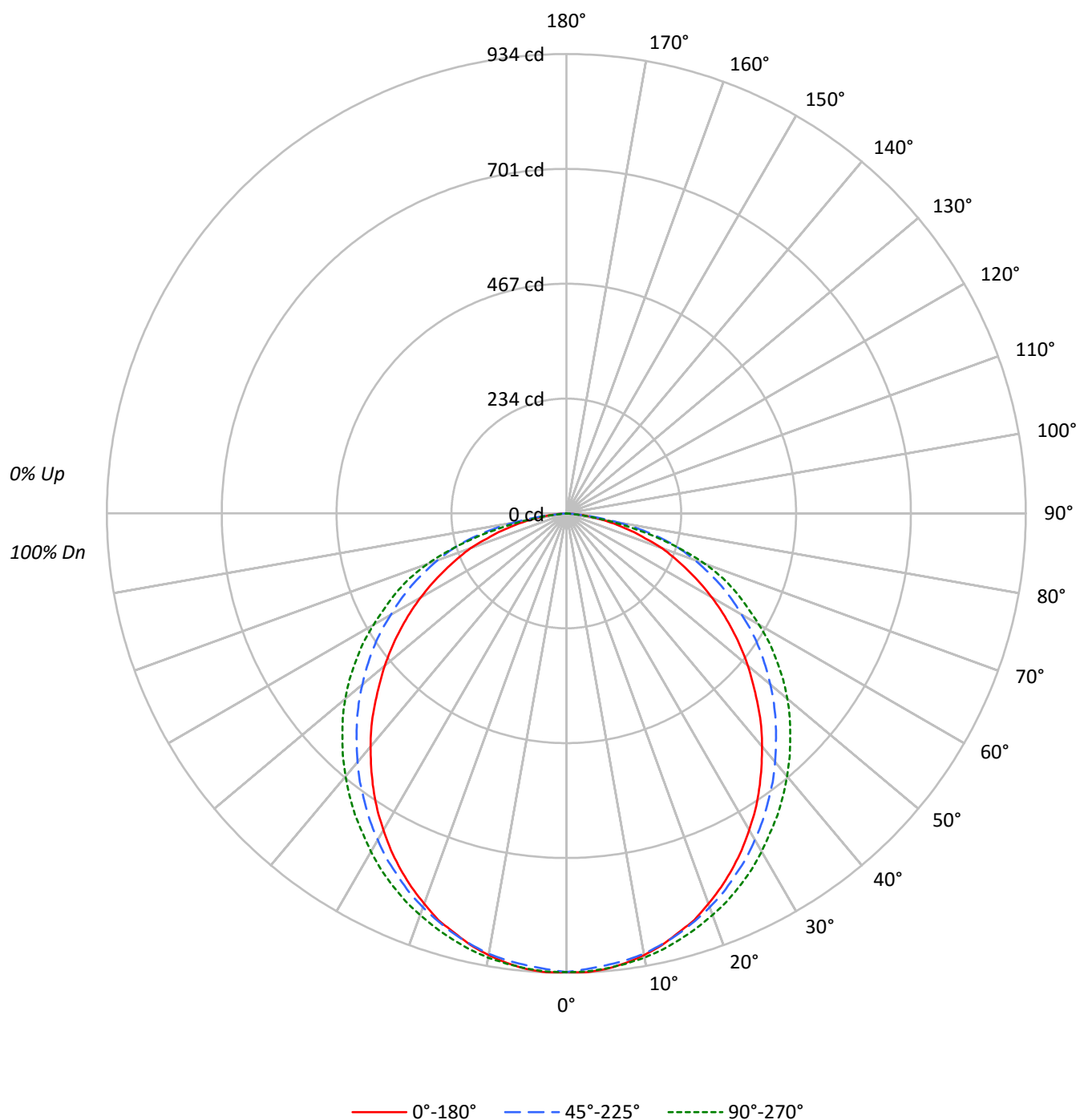
Input Watts (W): 23.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2512	2491	2508
10°	2491	2484	2505
15°	2457	2464	2497
20°	2418	2440	2489
25°	2369	2411	2480
30°	2310	2382	2467
35°	2246	2349	2459
40°	2174	2320	2452
45°	2095	2292	2449
50°	2017	2266	2456
55°	1932	2248	2449
60°	1840	2216	2433
65°	1732	2210	2432
70°	1630	2190	2364
75°	1414	2141	2020
80°	1144	1726	1345
85°	760	599	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.4
10°-20°	250.5	9.6
20°-30°	375.8	14.4
30°-40°	448.3	17.2
40°-50°	463.5	17.7
50°-60°	423.2	16.2
60°-70°	333.0	12.7
70°-80°	193.9	7.4
80°-90°	35.7	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°	714.4	27.4
0°-40°	1162.8	44.5
0°-60°	2049.4	78.5
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	930	927	922	930	929	88
15°	882	883	884	896	896	249
25°	798	802	812	831	835	367
35°	684	693	715	742	748	427
45°	550	568	602	636	644	425
55°	412	434	479	514	522	368
65°	272	300	347	374	382	270
75°	136	168	206	202	194	145
85°	25	35	19	16	13	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.4	932.4	932.4	932.4	932.4
2.5°	933.7	931.1	927.3	933.7	932.4
5°	929.9	927.3	922.1	929.9	928.6
7.5°	922.1	919.5	916.9	924.7	923.4
10°	911.7	910.4	909.1	918.2	916.9
12.5°	898.8	898.8	897.5	907.8	907.8
15°	881.9	883.2	884.5	896.2	896.2
17.5°	866.4	865.1	869.0	881.9	883.2
20°	844.4	847.0	852.1	867.7	869.0
22.5°	822.4	825.0	834.0	849.6	853.4
25°	797.8	801.6	812.0	831.4	835.3
27.5°	771.9	777.0	791.3	812.0	815.9
30°	743.4	751.1	766.7	790.0	793.9
32.5°	714.9	722.6	742.1	765.4	770.6
35°	683.8	692.9	714.9	742.1	748.5
37.5°	651.4	663.1	689.0	716.2	723.9
40°	619.0	632.0	660.5	689.0	698.0
42.5°	586.7	599.6	630.7	663.1	672.1
45°	550.4	568.5	602.2	635.9	643.6
47.5°	515.4	534.9	572.4	606.1	616.4
50°	481.8	501.2	541.3	576.3	586.7
52.5°	446.8	467.5	510.3	546.5	555.6
55°	411.8	433.8	479.2	514.1	521.9
57.5°	376.9	400.2	446.8	480.5	489.5
60°	341.9	366.5	411.8	445.5	452.0
62.5°	306.9	332.8	379.5	409.2	415.7
65°	272.0	300.5	347.1	374.3	382.0
67.5°	238.3	266.8	312.1	338.0	344.5
70°	207.2	233.1	278.4	297.9	300.5
72.5°	168.4	200.7	244.8	255.1	248.7
75°	136.0	168.4	205.9	202.0	194.3
77.5°	103.6	136.0	160.6	147.6	137.3
80°	73.8	106.2	111.4	91.9	86.8
82.5°	47.9	73.8	62.2	47.9	38.9
85°	24.6	35.0	19.4	15.5	13.0
87.5°	7.8	5.2	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)