

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: P307478

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-W2A-U-4000K**

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: P307478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
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-RDP-CA08-W2A-U-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET
Light Source: (168) 4000K 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: 2662.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

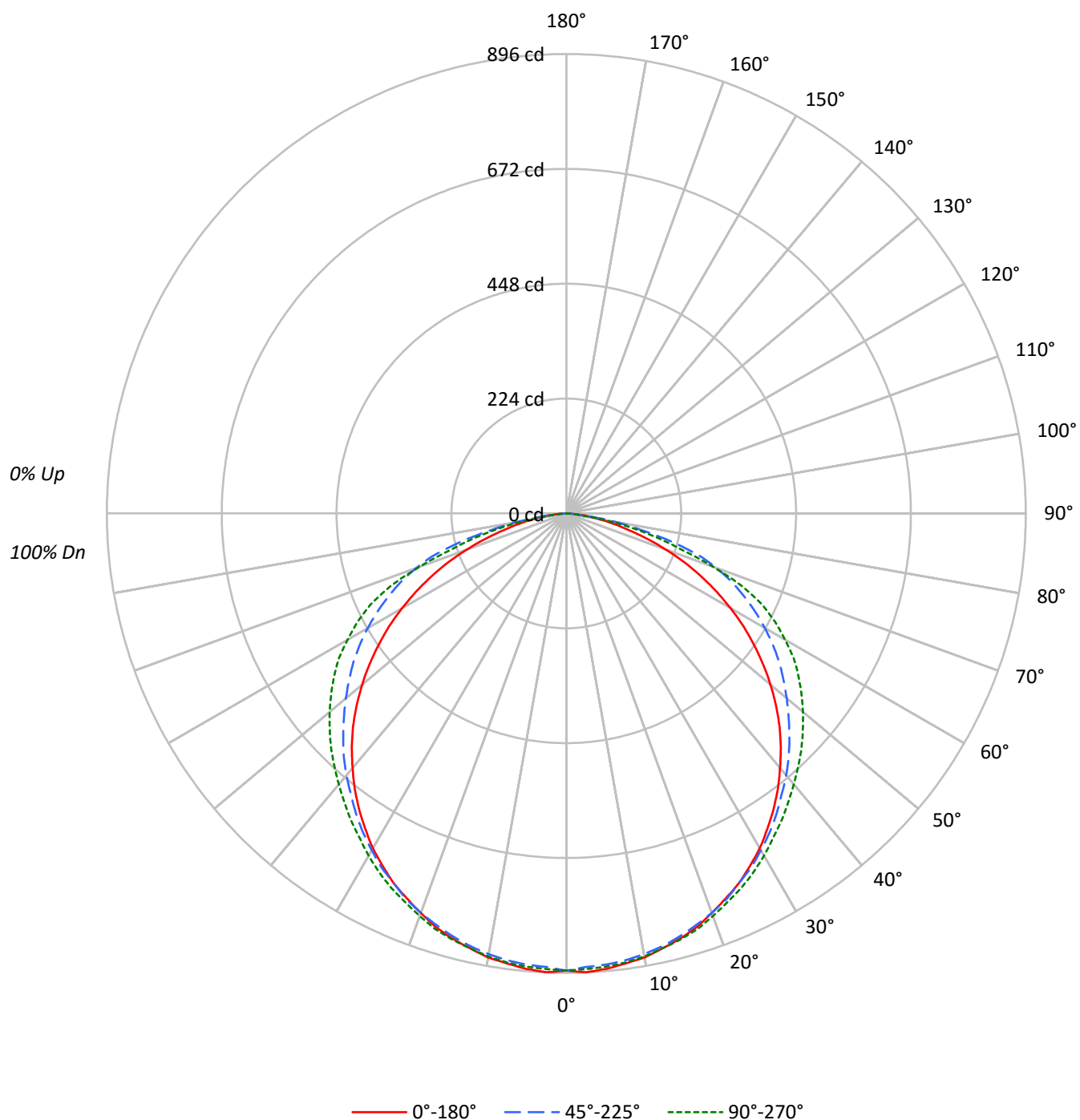
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2408	2386	2397
10°	2402	2385	2396
15°	2391	2380	2397
20°	2375	2375	2393
25°	2363	2363	2394
30°	2344	2357	2396
35°	2314	2349	2403
40°	2278	2343	2424
45°	2238	2341	2468
50°	2175	2349	2523
55°	2096	2379	2594
60°	1991	2405	2651
65°	1840	2435	2686
70°	1635	2452	2404
75°	1318	2204	1923
80°	1031	1547	1257
85°	707	448	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.2
10°-20°	242.1	9.1
20°-30°	368.7	13.8
30°-40°	449.0	16.9
40°-50°	476.4	17.9
50°-60°	449.6	16.9
60°-70°	363.0	13.6
70°-80°	196.9	7.4
80°-90°	31.9	1.2
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°	695.2	26.1
0°-40°	1144.2	43.0
0°-60°	2070.2	77.8
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	892	890	883	890	887	85
15°	858	856	854	860	860	242
25°	796	794	796	804	806	366
35°	704	709	715	730	732	440
45°	588	596	615	638	648	453
55°	447	466	507	540	553	399
65°	289	324	382	414	422	286
75°	127	185	212	191	185	139
85°	23	25	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.6	891.6	891.6	891.6	891.6
2.5°	895.7	891.6	885.3	891.6	889.5
5°	891.6	889.5	883.3	889.5	887.4
7.5°	885.3	885.3	879.1	883.3	883.3
10°	879.1	877.0	872.9	879.1	877.0
12.5°	868.7	866.6	864.6	870.8	868.7
15°	858.3	856.2	854.2	860.4	860.4
17.5°	845.9	843.8	841.7	850.0	850.0
20°	829.2	829.2	829.2	837.5	835.5
22.5°	812.6	812.6	814.7	823.0	820.9
25°	796.0	793.9	796.0	804.3	806.4
27.5°	775.2	777.3	779.3	787.7	789.7
30°	754.4	756.5	758.6	769.0	771.0
32.5°	729.5	733.6	737.8	750.3	750.3
35°	704.5	708.7	714.9	729.5	731.5
37.5°	677.5	681.7	690.0	706.6	710.8
40°	648.4	654.7	667.1	683.7	690.0
42.5°	619.3	627.6	642.2	660.9	669.2
45°	588.1	596.5	615.2	638.0	648.4
47.5°	554.9	565.3	588.1	617.2	625.6
50°	519.6	534.1	561.1	592.3	602.7
52.5°	484.2	500.9	534.1	567.4	577.8
55°	446.8	465.5	507.1	540.3	552.8
57.5°	409.4	430.2	478.0	513.3	525.8
60°	369.9	394.9	446.8	482.2	492.5
62.5°	330.4	359.5	415.7	451.0	459.3
65°	288.9	324.2	382.4	413.6	421.9
67.5°	249.4	291.0	349.1	372.0	372.0
70°	207.8	253.5	311.7	318.0	305.5
72.5°	166.3	218.2	270.2	247.3	236.9
75°	126.8	185.0	212.0	191.2	185.0
77.5°	95.6	149.6	149.6	137.2	133.0
80°	66.5	114.3	99.8	87.3	81.1
82.5°	43.6	64.4	52.0	41.6	35.3
85°	22.9	24.9	14.5	12.5	10.4
87.5°	8.3	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)