

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: P307508

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP187-W2A-U-5500K**

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: P307508
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-CP187-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.187" POLYCARB SHEET
Light Source: (168) 5500K 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: 2595.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

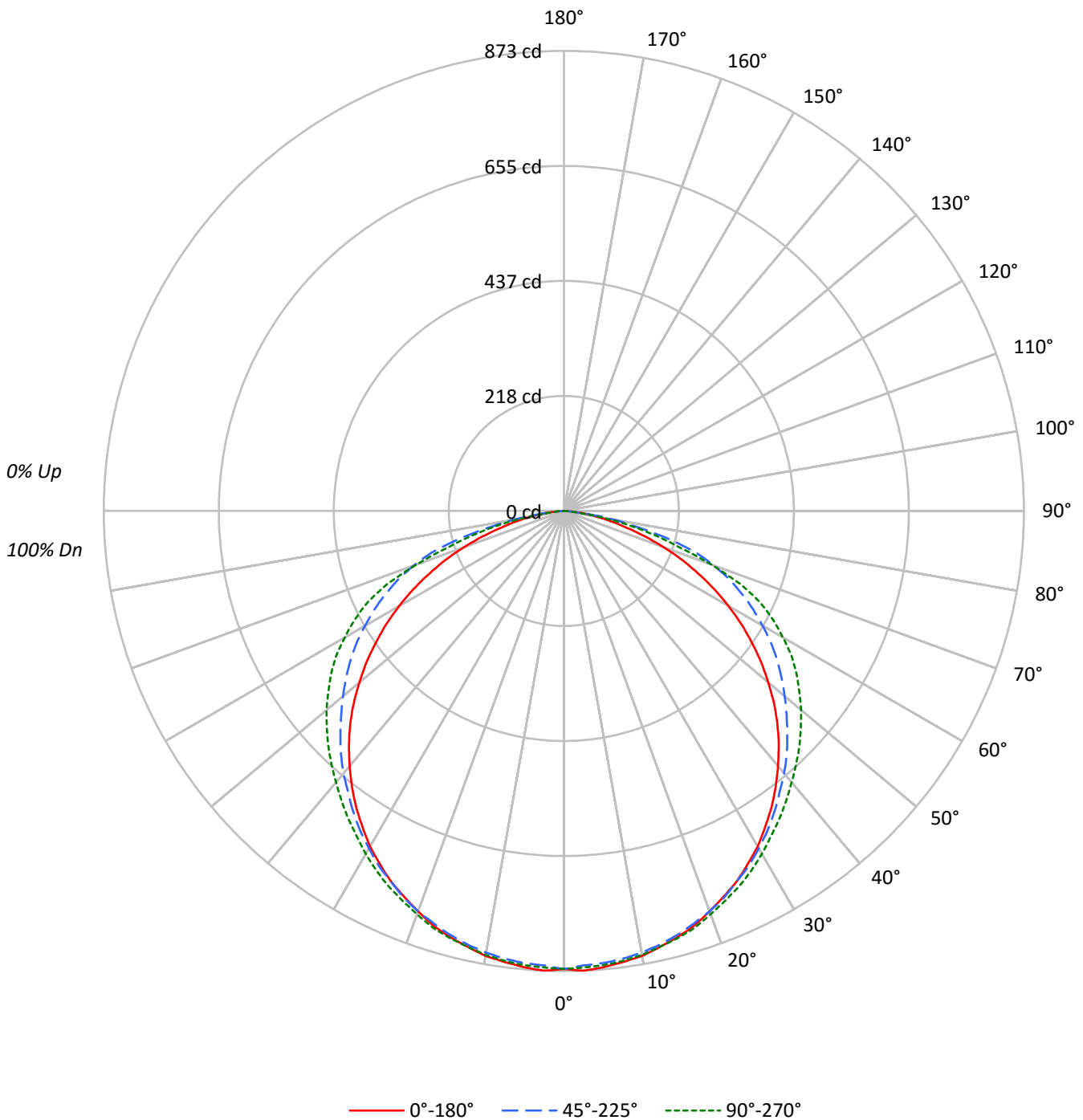
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2339	2339	2339
5°	2348	2326	2337
10°	2342	2325	2336
15°	2331	2320	2337
20°	2315	2315	2332
25°	2304	2304	2334
30°	2285	2298	2335
35°	2256	2289	2343
40°	2220	2284	2363
45°	2182	2282	2406
50°	2120	2290	2460
55°	2044	2319	2528
60°	1941	2344	2584
65°	1793	2374	2619
70°	1594	2391	2343
75°	1285	2148	1875
80°	1004	1506	1224
85°	689	438	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.2
10°-20°	236.0	9.1
20°-30°	359.4	13.8
30°-40°	437.7	16.9
40°-50°	464.4	17.9
50°-60°	438.3	16.9
60°-70°	353.9	13.6
70°-80°	192.0	7.4
80°-90°	31.1	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°	677.7	26.1
0°-40°	1115.4	43.0
0°-60°	2018.1	77.8
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	869	867	861	867	865	83
15°	837	835	833	839	839	236
25°	776	774	776	784	786	357
35°	687	691	697	711	713	429
45°	573	581	600	622	632	442
55°	436	454	494	527	539	389
65°	282	316	373	403	411	279
75°	124	180	207	186	180	135
85°	22	24	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°	869.1	869.1	869.1	869.1	869.1
2.5°	873.2	869.1	863.1	869.1	867.1
5°	869.1	867.1	861.0	867.1	865.1
7.5°	863.1	863.1	857.0	861.0	861.0
10°	857.0	855.0	850.9	857.0	855.0
12.5°	846.8	844.8	842.8	848.9	846.8
15°	836.7	834.7	832.7	838.7	838.7
17.5°	824.6	822.5	820.5	828.6	828.6
20°	808.4	808.4	808.4	816.5	814.4
22.5°	792.1	792.1	794.2	802.3	800.2
25°	775.9	773.9	775.9	784.0	786.1
27.5°	755.7	757.7	759.7	767.8	769.9
30°	735.4	737.4	739.5	749.6	751.6
32.5°	711.1	715.2	719.2	731.4	731.4
35°	686.8	690.8	696.9	711.1	713.1
37.5°	660.5	664.5	672.6	688.8	692.9
40°	632.1	638.2	650.3	666.5	672.6
42.5°	603.7	611.8	626.0	644.3	652.4
45°	573.3	581.4	599.7	622.0	632.1
47.5°	540.9	551.1	573.3	601.7	609.8
50°	506.5	520.7	547.0	577.4	587.5
52.5°	472.0	488.3	520.7	553.1	563.2
55°	435.6	453.8	494.3	526.7	538.9
57.5°	399.1	419.4	466.0	500.4	512.6
60°	360.6	384.9	435.6	470.0	480.1
62.5°	322.1	350.5	405.2	439.6	447.7
65°	281.6	316.0	372.8	403.2	411.3
67.5°	243.1	283.6	340.4	362.6	362.6
70°	202.6	247.2	303.9	310.0	297.8
72.5°	162.1	212.7	263.4	241.1	231.0
75°	123.6	180.3	206.6	186.4	180.3
77.5°	93.2	145.9	145.9	133.7	129.7
80°	64.8	111.4	97.2	85.1	79.0
82.5°	42.5	62.8	50.6	40.5	34.4
85°	22.3	24.3	14.2	12.2	10.1
87.5°	8.1	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)