

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: P307476

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA08-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: P307476
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-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC 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: 2518.0 lumens
Efficiency: N/A
Efficacy: 66.3 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

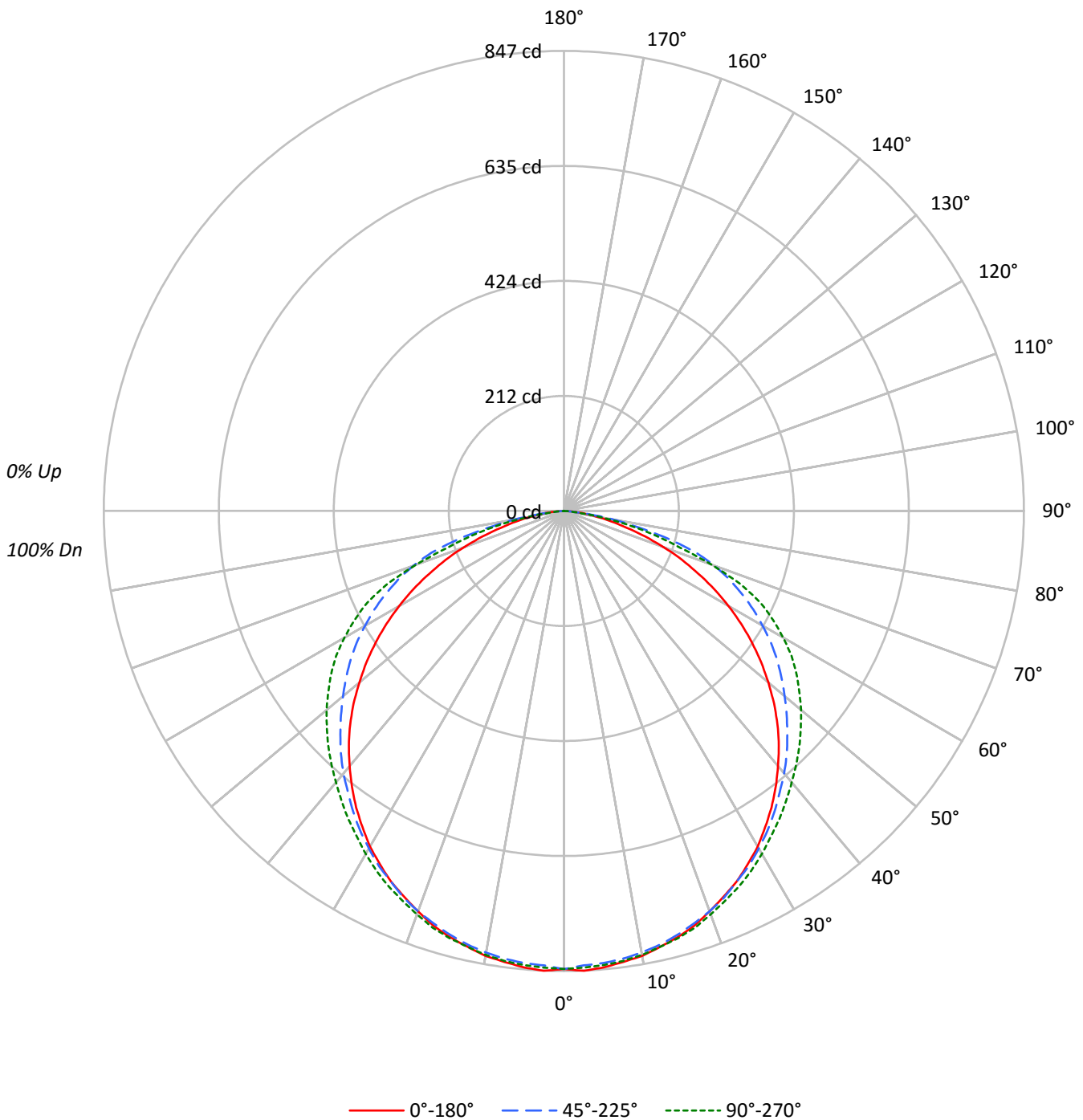
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2269	2269	2269
5°	2278	2257	2267
10°	2272	2256	2267
15°	2262	2251	2267
20°	2246	2246	2263
25°	2235	2235	2265
30°	2217	2229	2266
35°	2189	2221	2273
40°	2154	2217	2293
45°	2117	2214	2334
50°	2058	2222	2387
55°	1983	2251	2453
60°	1883	2275	2507
65°	1740	2303	2541
70°	1547	2320	2274
75°	1247	2085	1820
80°	975	1463	1189
85°	667	426	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.2
10°-20°	229.0	9.1
20°-30°	348.7	13.8
30°-40°	424.7	16.9
40°-50°	450.6	17.9
50°-60°	425.3	16.9
60°-70°	343.4	13.6
70°-80°	186.3	7.4
80°-90°	30.1	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°	657.6	26.1
0°-40°	1082.3	43.0
0°-60°	1958.2	77.8
0°-90°	2518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	843	841	836	841	839	80
15°	812	810	808	814	814	229
25°	753	751	753	761	763	347
35°	666	670	676	690	692	417
45°	556	564	582	604	613	428
55°	423	440	480	511	523	378
65°	273	307	362	391	399	271
75°	120	175	200	181	175	131
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.3	843.3	843.3	843.3	843.3
2.5°	847.3	843.3	837.4	843.3	841.4
5°	843.3	841.4	835.5	841.4	839.4
7.5°	837.4	837.4	831.5	835.5	835.5
10°	831.5	829.6	825.6	831.5	829.6
12.5°	821.7	819.8	817.8	823.7	821.7
15°	811.9	809.9	808.0	813.9	813.9
17.5°	800.1	798.1	796.2	804.0	804.0
20°	784.4	784.4	784.4	792.2	790.3
22.5°	768.6	768.6	770.6	778.5	776.5
25°	752.9	750.9	752.9	760.8	762.7
27.5°	733.3	735.2	737.2	745.1	747.0
30°	713.6	715.6	717.5	727.4	729.3
32.5°	690.0	693.9	697.9	709.7	709.7
35°	666.4	670.3	676.2	690.0	692.0
37.5°	640.9	644.8	652.7	668.4	672.3
40°	613.3	619.2	631.0	646.8	652.7
42.5°	585.8	593.7	607.4	625.1	633.0
45°	556.3	564.2	581.9	603.5	613.3
47.5°	524.9	534.7	556.3	583.9	591.7
50°	491.5	505.2	530.8	560.3	570.1
52.5°	458.0	473.8	505.2	536.7	546.5
55°	422.7	440.3	479.7	511.1	522.9
57.5°	387.3	406.9	452.1	485.6	497.4
60°	349.9	373.5	422.7	456.1	465.9
62.5°	312.6	340.1	393.2	426.6	434.4
65°	273.3	306.7	361.7	391.2	399.1
67.5°	235.9	275.2	330.3	351.9	351.9
70°	196.6	239.8	294.9	300.8	289.0
72.5°	157.3	206.4	255.6	233.9	224.1
75°	119.9	175.0	200.5	180.9	175.0
77.5°	90.4	141.5	141.5	129.7	125.8
80°	62.9	108.1	94.4	82.6	76.7
82.5°	41.3	60.9	49.1	39.3	33.4
85°	21.6	23.6	13.8	11.8	9.8
87.5°	7.9	3.9	2.0	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)