

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: P307571

Luminaire Tested: **14FCZ2-25-UNV-L82765-CA08-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: P307571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-CA08-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC 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: 2438.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

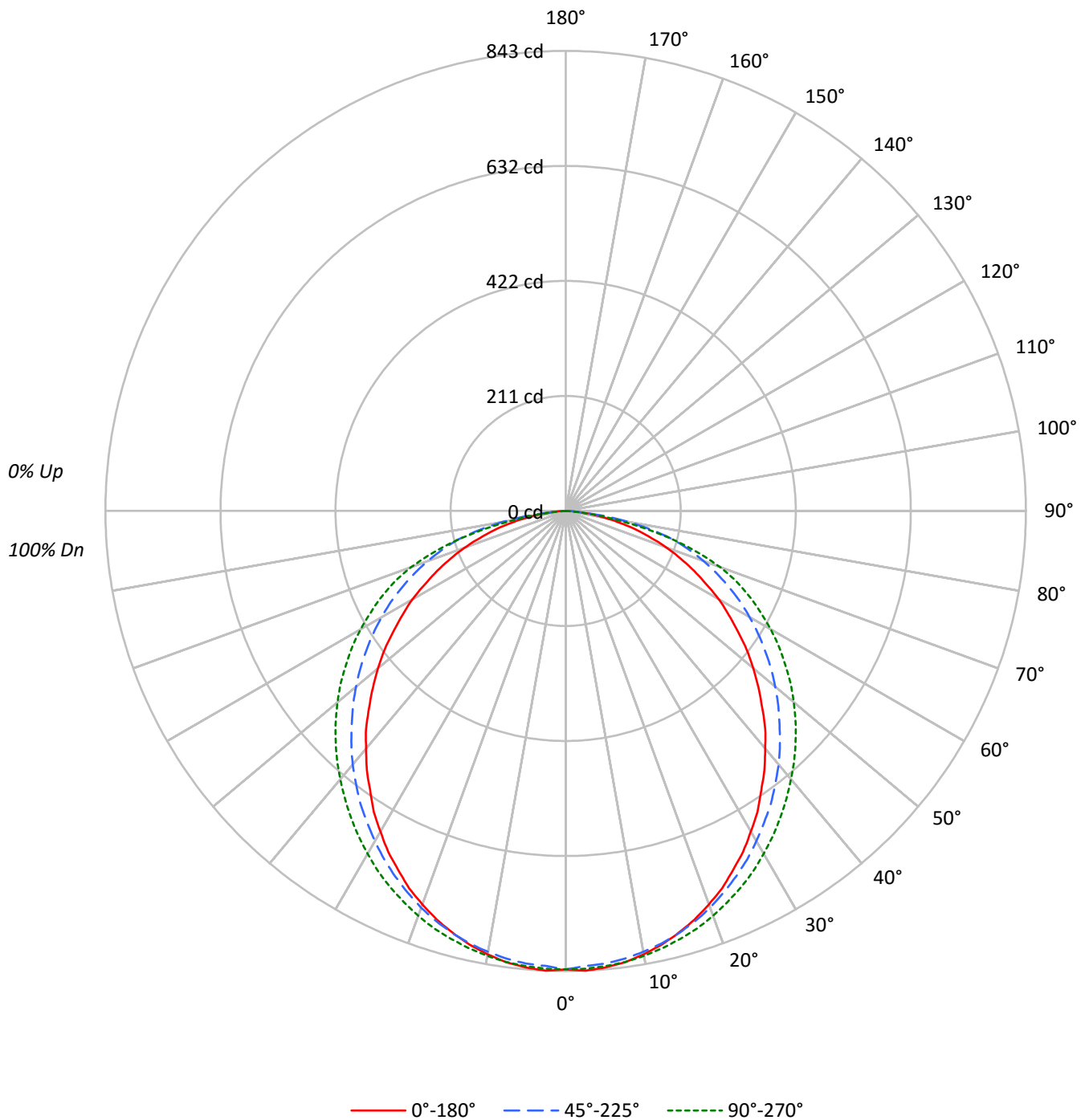
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2260	2260	2260
5°	2267	2248	2261
10°	2253	2241	2262
15°	2229	2231	2261
20°	2197	2215	2260
25°	2155	2194	2258
30°	2108	2171	2253
35°	2052	2152	2252
40°	1997	2131	2255
45°	1936	2108	2267
50°	1880	2098	2283
55°	1808	2092	2303
60°	1744	2095	2335
65°	1655	2101	2371
70°	1552	2117	2370
75°	1408	2137	2142
80°	1155	1846	1525
85°	855	874	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.3
10°-20°	227.0	9.3
20°-30°	342.0	14.0
30°-40°	410.4	16.8
40°-50°	427.8	17.5
50°-60°	396.0	16.2
60°-70°	320.0	13.1
70°-80°	195.1	8.0
80°-90°	40.3	1.7
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°	648.5	26.6
0°-40°	1058.9	43.4
0°-60°	1882.7	77.2
0°-90°	2438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	839	837	832	838	837	80
15°	800	801	801	812	812	226
25°	726	730	739	757	760	334
35°	625	634	655	679	686	391
45°	509	524	554	585	596	393
55°	385	406	446	481	491	345
65°	260	285	330	363	372	257
75°	135	165	206	209	206	142
85°	28	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.9	839.9	839.9	839.9	839.9
2.5°	843.2	840.4	834.5	840.4	839.4
5°	839.4	837.2	832.3	838.3	837.2
7.5°	833.9	831.7	827.4	834.5	833.4
10°	824.7	823.6	820.3	828.5	827.9
12.5°	813.8	813.3	811.6	820.9	820.3
15°	800.2	800.8	800.8	811.6	811.6
17.5°	785.0	786.1	788.3	800.2	801.8
20°	767.1	769.2	773.6	787.2	789.3
22.5°	748.6	750.2	756.7	773.0	775.2
25°	725.7	730.1	738.8	757.3	760.5
27.5°	704.0	707.8	719.8	738.8	744.2
30°	678.4	684.4	698.6	719.2	725.2
32.5°	654.0	660.5	676.8	700.7	706.2
35°	624.6	634.4	655.1	679.0	685.5
37.5°	598.0	607.2	630.6	656.7	664.3
40°	568.6	580.0	606.7	634.4	642.0
42.5°	541.4	552.3	581.1	609.4	619.7
45°	508.8	524.1	554.0	584.9	595.8
47.5°	478.9	494.2	528.4	561.6	571.3
50°	449.0	465.3	501.2	535.5	545.3
52.5°	418.0	435.4	474.0	508.3	519.7
55°	385.4	405.5	445.8	480.6	490.9
57.5°	354.4	375.1	418.0	453.4	463.7
60°	324.0	345.2	389.2	422.9	433.8
62.5°	290.3	315.3	361.0	394.1	402.3
65°	259.9	285.4	330.0	363.1	372.4
67.5°	227.8	255.5	300.1	330.5	339.2
70°	197.3	226.1	269.1	297.4	301.2
72.5°	164.7	194.1	237.6	255.5	255.5
75°	135.4	165.3	205.5	208.8	206.0
77.5°	103.3	136.4	162.5	156.0	149.5
80°	74.5	107.1	119.1	107.1	98.4
82.5°	50.0	77.7	71.8	57.1	50.6
85°	27.7	41.3	28.3	15.8	11.4
87.5°	10.3	9.2	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)