

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: P307842

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA08-W2A-U-5700K**

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: P307842
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: 14FCZ2-25-UNV-L82765-S-CA08-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5700K 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: 2470.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

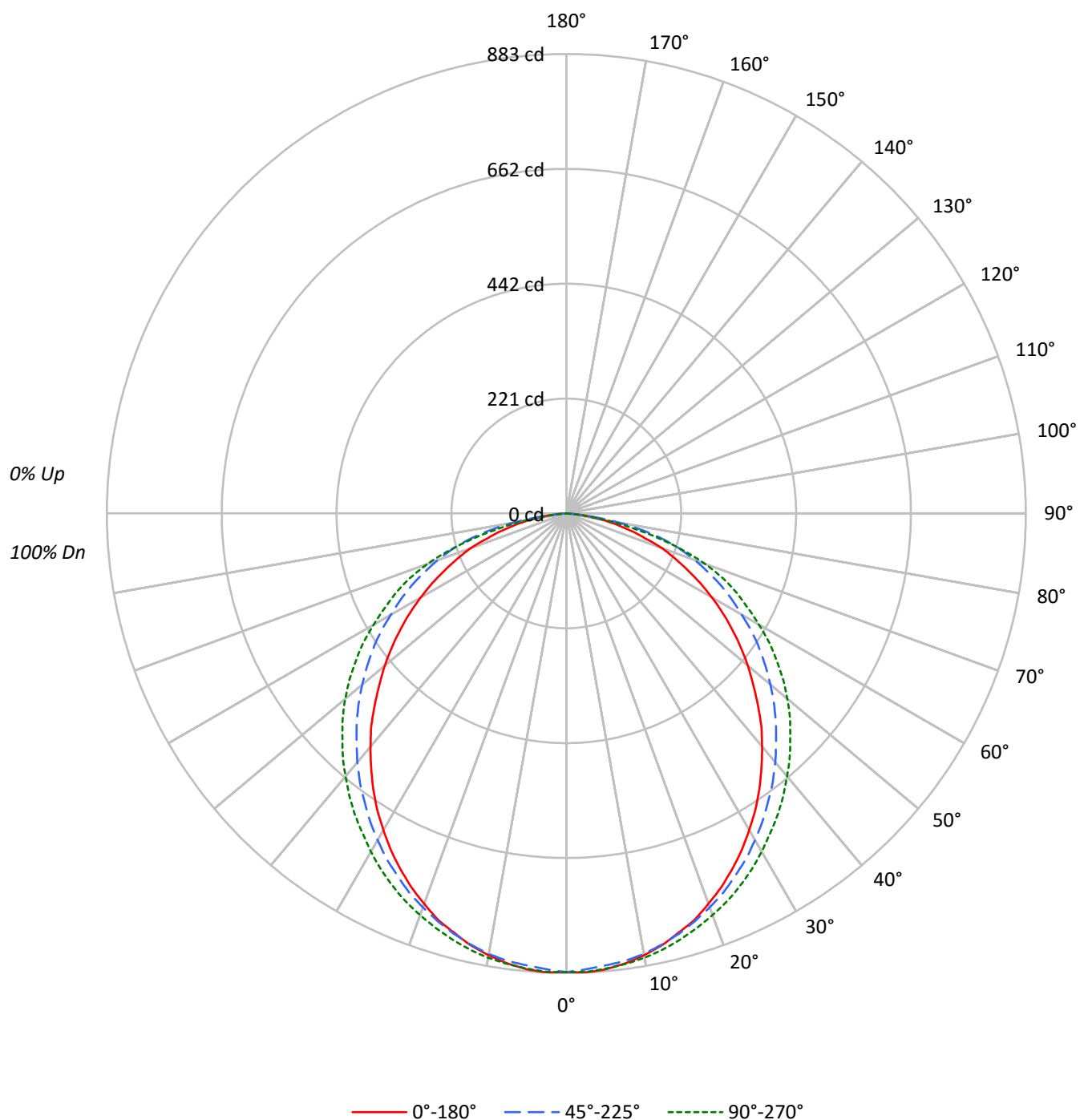
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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	94	91	89	90	88	86	84		
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2373	2373	2373
5°	2375	2355	2372
10°	2356	2349	2369
15°	2323	2330	2361
20°	2287	2308	2353
25°	2240	2280	2345
30°	2184	2253	2333
35°	2124	2221	2325
40°	2056	2194	2319
45°	1981	2167	2316
50°	1907	2143	2323
55°	1827	2126	2315
60°	1740	2096	2300
65°	1638	2090	2301
70°	1541	2072	2235
75°	1337	2024	1910
80°	1082	1632	1272
85°	719	568	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.4
10°-20°	236.9	9.6
20°-30°	355.4	14.4
30°-40°	424.0	17.2
40°-50°	438.3	17.7
50°-60°	400.2	16.2
60°-70°	314.9	12.7
70°-80°	183.3	7.4
80°-90°	33.8	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°	675.6	27.4
0°-40°	1099.6	44.5
0°-60°	1938.0	78.5
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	879	877	872	879	878	83
15°	834	835	836	848	848	235
25°	754	758	768	786	790	347
35°	647	655	676	702	708	404
45°	520	538	570	601	609	402
55°	389	410	453	486	494	348
65°	257	284	328	354	361	255
75°	129	159	195	191	184	137
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.7	881.7	881.7	881.7	881.7
2.5°	883.0	880.5	876.9	883.0	881.7
5°	879.3	876.9	872.0	879.3	878.1
7.5°	872.0	869.5	867.1	874.4	873.2
10°	862.2	860.9	859.7	868.3	867.1
12.5°	849.9	849.9	848.7	858.5	858.5
15°	834.0	835.2	836.4	847.5	847.5
17.5°	819.3	818.1	821.7	834.0	835.2
20°	798.5	800.9	805.8	820.5	821.7
22.5°	777.7	780.1	788.7	803.4	807.0
25°	754.4	758.1	767.9	786.2	789.9
27.5°	729.9	734.8	748.3	767.9	771.5
30°	702.9	710.3	725.0	747.0	750.7
32.5°	676.0	683.4	701.7	723.8	728.7
35°	646.6	655.2	676.0	701.7	707.8
37.5°	616.0	627.0	651.5	677.2	684.6
40°	585.4	597.6	624.6	651.5	660.1
42.5°	554.8	567.0	596.4	627.0	635.6
45°	520.5	537.6	569.5	601.3	608.7
47.5°	487.4	505.8	541.3	573.1	582.9
50°	455.6	473.9	511.9	545.0	554.8
52.5°	422.5	442.1	482.5	516.8	525.4
55°	389.4	410.3	453.1	486.2	493.5
57.5°	356.4	378.4	422.5	454.3	462.9
60°	323.3	346.6	389.4	421.3	427.4
62.5°	290.2	314.7	358.8	387.0	393.1
65°	257.2	284.1	328.2	353.9	361.3
67.5°	225.3	252.3	295.1	319.6	325.8
70°	195.9	220.4	263.3	281.7	284.1
72.5°	159.2	189.8	231.5	241.3	235.1
75°	128.6	159.2	194.7	191.0	183.7
77.5°	98.0	128.6	151.9	139.6	129.8
80°	69.8	100.4	105.3	87.0	82.1
82.5°	45.3	69.8	58.8	45.3	36.7
85°	23.3	33.1	18.4	14.7	12.2
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)