

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: P308570

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CA125-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: P308570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-5500K
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS WITH INSERT, 0.125" 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: 2760.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

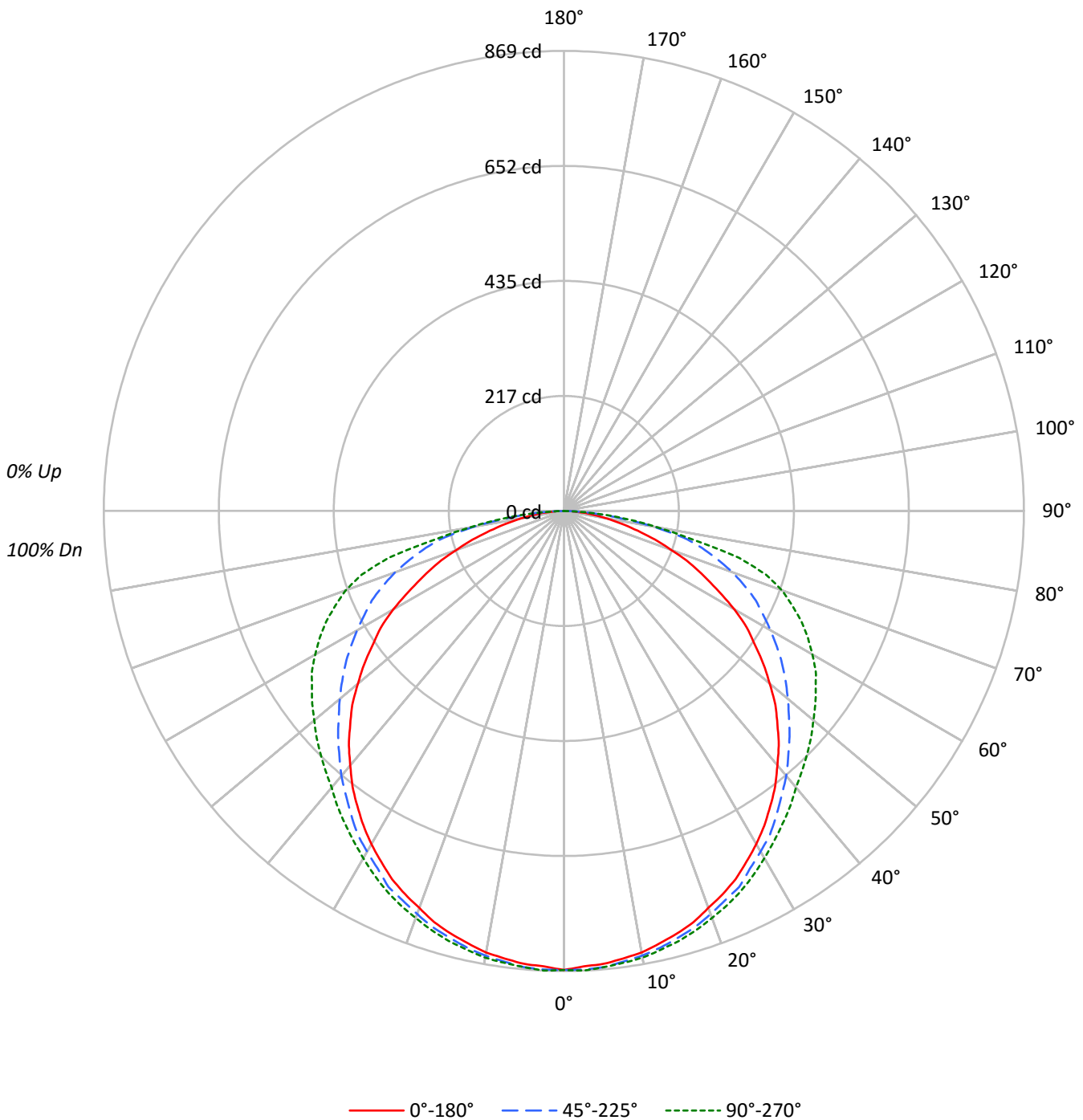
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2320	2336	2336
10°	2314	2330	2341
15°	2302	2325	2342
20°	2285	2320	2343
25°	2279	2327	2351
30°	2259	2309	2353
35°	2235	2301	2368
40°	2204	2297	2396
45°	2171	2295	2473
50°	2125	2312	2575
55°	2067	2362	2724
60°	2000	2426	2918
65°	1862	2547	3154
70°	1709	2668	3451
75°	1499	2807	3567
80°	1289	2675	2800
85°	1127	1942	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.0
10°-20°	235.5	8.5
20°-30°	359.2	13.0
30°-40°	438.6	15.9
40°-50°	469.0	17.0
50°-60°	452.7	16.4
60°-70°	389.7	14.1
70°-80°	263.7	9.6
80°-90°	69.6	2.5
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°	676.7	24.5
0°-40°	1115.4	40.4
0°-60°	2037.1	73.8
0°-90°	2760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	859	861	865	865	865	82
15°	826	828	834	838	841	233
25°	768	772	784	788	792	353
35°	680	686	700	715	721	426
45°	570	581	603	634	650	440
55°	441	455	504	554	581	395
65°	292	321	400	463	495	291
75°	144	191	270	325	343	155
85°	36	51	63	65	69	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.0	867.0	867.0	867.0	867.0
2.5°	860.9	862.9	867.0	867.0	869.0
5°	858.8	860.9	864.9	864.9	864.9
7.5°	852.8	854.8	858.8	860.9	860.9
10°	846.7	848.7	852.8	854.8	856.8
12.5°	836.5	838.5	844.6	848.7	848.7
15°	826.4	828.4	834.5	838.5	840.6
17.5°	814.2	818.2	824.3	828.4	830.4
20°	797.9	802.0	810.1	816.2	818.2
22.5°	783.7	787.8	795.9	802.0	806.1
25°	767.5	771.5	783.7	787.8	791.8
27.5°	747.2	751.2	761.4	769.5	775.6
30°	726.9	730.9	743.1	753.3	757.3
32.5°	704.5	710.6	724.8	733.0	739.1
35°	680.2	686.3	700.5	714.7	720.8
37.5°	655.8	661.9	676.1	694.4	702.5
40°	627.4	635.5	653.8	678.1	682.2
42.5°	601.0	611.1	627.4	655.8	666.0
45°	570.5	580.7	603.0	633.5	649.7
47.5°	542.1	552.3	576.6	613.2	633.5
50°	507.6	521.8	552.3	594.9	615.2
52.5°	475.1	487.3	527.9	574.6	599.0
55°	440.6	454.8	503.5	554.3	580.7
57.5°	410.1	422.3	477.1	534.0	564.4
60°	371.6	387.8	450.7	511.7	542.1
62.5°	330.9	355.3	424.3	487.3	519.8
65°	292.4	320.8	400.0	462.9	495.4
67.5°	257.9	288.3	369.5	436.5	467.0
70°	217.2	255.8	339.1	404.0	438.6
72.5°	180.7	223.3	304.6	369.5	400.0
75°	144.2	190.9	270.0	324.9	343.1
77.5°	111.7	156.3	231.5	247.7	249.7
80°	83.2	123.9	172.6	174.6	180.7
82.5°	56.9	87.3	111.7	121.8	123.9
85°	36.5	50.8	62.9	65.0	69.0
87.5°	16.2	18.3	22.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)