

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: P307141

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP125-W2A-U-6500K**

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: P307141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-HRP-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB SHEET
Light Source: (168) 6500K 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: 2610.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

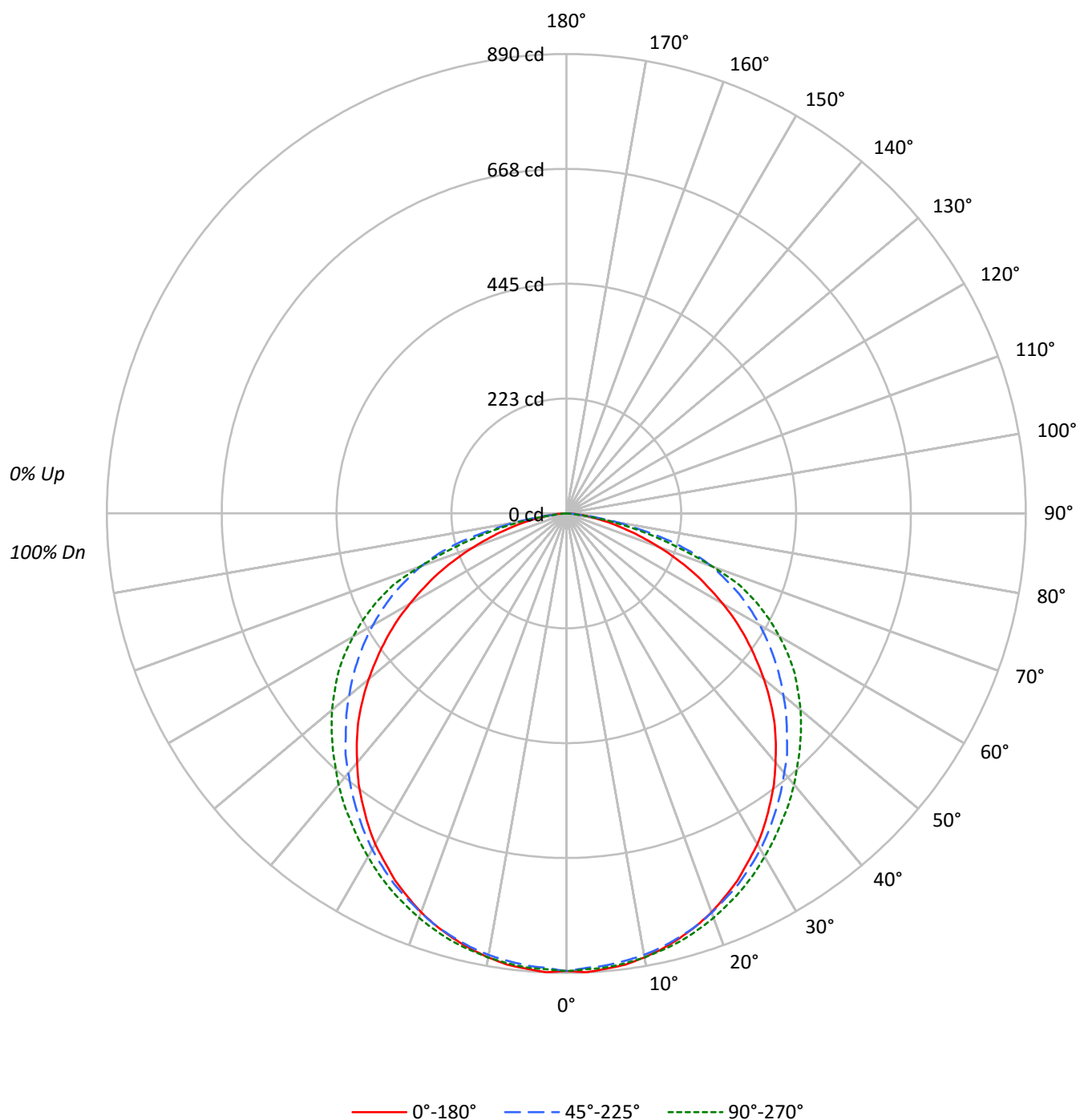
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	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	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2385	2385	2385
5°	2392	2374	2385
10°	2386	2373	2386
15°	2371	2366	2389
20°	2355	2357	2388
25°	2330	2349	2388
30°	2300	2336	2387
35°	2259	2319	2392
40°	2214	2307	2410
45°	2168	2299	2436
50°	2092	2299	2481
55°	2002	2310	2533
60°	1882	2328	2566
65°	1735	2351	2581
70°	1511	2357	2376
75°	1246	2193	1920
80°	979	1578	1285
85°	760	608	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.2
10°-20°	240.8	9.2
20°-30°	365.7	14.0
30°-40°	443.1	17.0
40°-50°	466.9	17.9
50°-60°	435.9	16.7
60°-70°	348.3	13.3
70°-80°	191.7	7.3
80°-90°	33.8	1.3
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°	690.4	26.5
0°-40°	1133.4	43.4
0°-60°	2036.2	78.0
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	886	883	879	885	883	84
15°	851	851	849	858	858	240
25°	785	786	791	803	804	361
35°	688	694	706	724	728	430
45°	570	580	604	631	640	438
55°	427	448	492	527	540	381
65°	272	307	369	400	405	268
75°	120	172	211	190	185	129
85°	25	31	20	12	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.4	886.4	886.4	886.4	886.4
2.5°	889.7	887.2	881.4	886.4	883.9
5°	885.5	883.1	879.0	884.7	883.1
7.5°	881.4	878.2	874.1	880.6	879.0
10°	873.2	870.8	868.3	874.1	873.2
12.5°	863.4	862.6	860.1	866.7	865.9
15°	851.1	851.1	849.4	857.6	857.6
17.5°	837.9	837.1	837.9	847.0	846.2
20°	822.4	822.4	823.2	833.8	833.8
22.5°	803.5	804.3	806.8	819.9	819.1
25°	784.6	786.2	791.2	802.7	804.3
27.5°	761.6	765.7	771.5	785.4	787.1
30°	740.3	742.7	751.8	764.9	768.2
32.5°	714.8	719.8	729.6	744.4	748.5
35°	687.8	694.3	705.8	723.9	728.0
37.5°	660.7	666.4	682.0	700.9	708.3
40°	630.3	640.2	656.6	677.9	686.1
42.5°	600.8	610.6	632.8	654.9	662.3
45°	569.6	580.2	604.0	631.1	640.2
47.5°	535.1	547.4	577.8	606.5	616.4
50°	499.8	515.4	549.1	581.1	592.6
52.5°	462.9	482.6	521.2	554.8	565.5
55°	426.8	448.1	492.4	526.9	540.0
57.5°	389.8	412.8	462.9	502.3	509.7
60°	349.6	377.5	432.5	467.0	476.8
62.5°	310.2	342.2	401.3	434.2	442.4
65°	272.5	306.9	369.3	399.7	405.4
67.5°	231.4	272.5	334.0	361.9	363.6
70°	192.0	239.6	299.6	312.7	302.0
72.5°	153.5	204.4	259.3	248.7	239.6
75°	119.8	171.5	210.9	189.6	184.7
77.5°	88.6	140.3	151.0	139.5	130.5
80°	63.2	110.8	101.8	87.0	82.9
82.5°	43.5	69.8	55.8	43.5	37.8
85°	24.6	31.2	19.7	12.3	9.8
87.5°	10.7	7.4	4.1	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)