

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: P307124

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-2700K**

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: P307124
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-CA125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 2700K 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: 2337.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

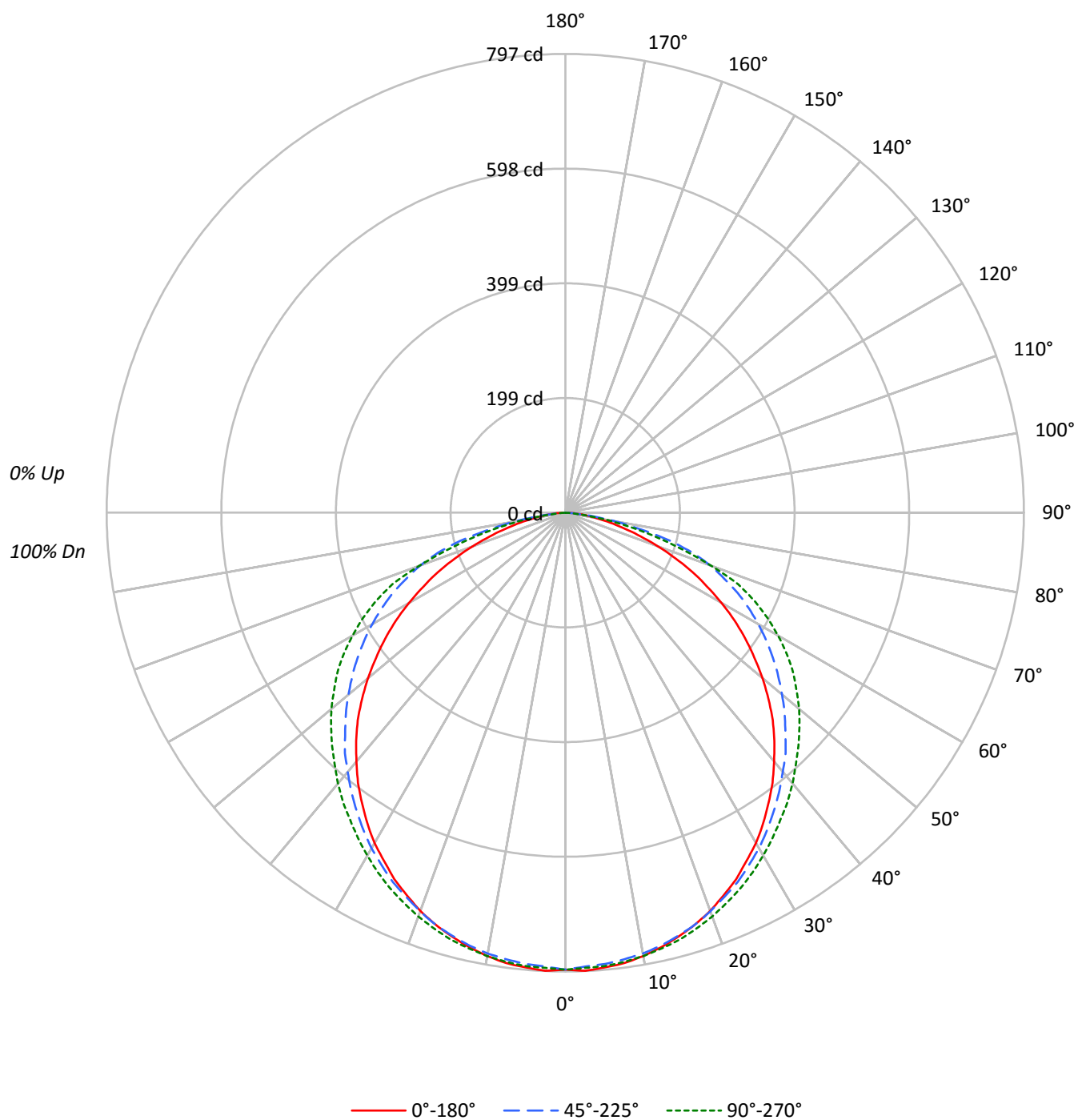
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2136	2136	2136
5°	2142	2126	2136
10°	2137	2125	2137
15°	2123	2119	2139
20°	2109	2111	2138
25°	2086	2103	2138
30°	2060	2092	2137
35°	2023	2076	2141
40°	1983	2065	2158
45°	1941	2058	2181
50°	1873	2058	2221
55°	1793	2069	2268
60°	1685	2084	2298
65°	1554	2106	2311
70°	1353	2110	2127
75°	1116	1964	1719
80°	877	1412	1150
85°	679	543	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.2
10°-20°	215.6	9.2
20°-30°	327.4	14.0
30°-40°	396.7	17.0
40°-50°	418.0	17.9
50°-60°	390.3	16.7
60°-70°	311.9	13.3
70°-80°	171.6	7.3
80°-90°	30.3	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°	618.2	26.5
0°-40°	1014.9	43.4
0°-60°	1823.2	78.0
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	793	791	787	792	791	75
15°	762	762	761	768	768	215
25°	702	704	708	719	720	323
35°	616	622	632	648	652	385
45°	510	520	541	565	573	392
55°	382	401	441	472	484	341
65°	244	275	331	358	363	240
75°	107	154	189	170	165	115
85°	22	28	18	11	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.7	793.7	793.7	793.7	793.7
2.5°	796.6	794.4	789.2	793.7	791.5
5°	792.9	790.7	787.0	792.2	790.7
7.5°	789.2	786.3	782.6	788.5	787.0
10°	781.9	779.7	777.5	782.6	781.9
12.5°	773.1	772.3	770.1	776.0	775.3
15°	762.1	762.1	760.6	767.9	767.9
17.5°	750.3	749.6	750.3	758.4	757.6
20°	736.3	736.3	737.1	746.6	746.6
22.5°	719.4	720.2	722.4	734.1	733.4
25°	702.5	704.0	708.4	718.7	720.2
27.5°	682.0	685.6	690.8	703.3	704.7
30°	662.9	665.1	673.1	684.9	687.8
32.5°	640.1	644.5	653.3	666.5	670.2
35°	615.8	621.7	632.0	648.2	651.8
37.5°	591.6	596.7	610.7	627.6	634.2
40°	564.4	573.2	587.9	607.0	614.3
42.5°	537.9	546.7	566.6	586.4	593.0
45°	510.0	519.6	540.9	565.1	573.2
47.5°	479.1	490.2	517.3	543.1	551.9
50°	447.5	461.5	491.6	520.3	530.6
52.5°	414.5	432.1	466.6	496.8	506.3
55°	382.1	401.2	440.9	471.8	483.5
57.5°	349.1	369.6	414.5	449.7	456.4
60°	313.1	338.0	387.3	418.1	427.0
62.5°	277.8	306.4	359.4	388.7	396.1
65°	244.0	274.8	330.7	357.9	363.0
67.5°	207.2	244.0	299.1	324.1	325.5
70°	172.0	214.6	268.2	280.0	270.4
72.5°	137.4	183.0	232.2	222.7	214.6
75°	107.3	153.6	188.9	169.8	165.3
77.5°	79.4	125.7	135.2	124.9	116.8
80°	56.6	99.2	91.1	77.9	74.2
82.5°	38.9	62.5	50.0	38.9	33.8
85°	22.0	27.9	17.6	11.0	8.8
87.5°	9.6	6.6	3.7	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)