

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: P307409

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-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: P307409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
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-RDP-CP125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 2197.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

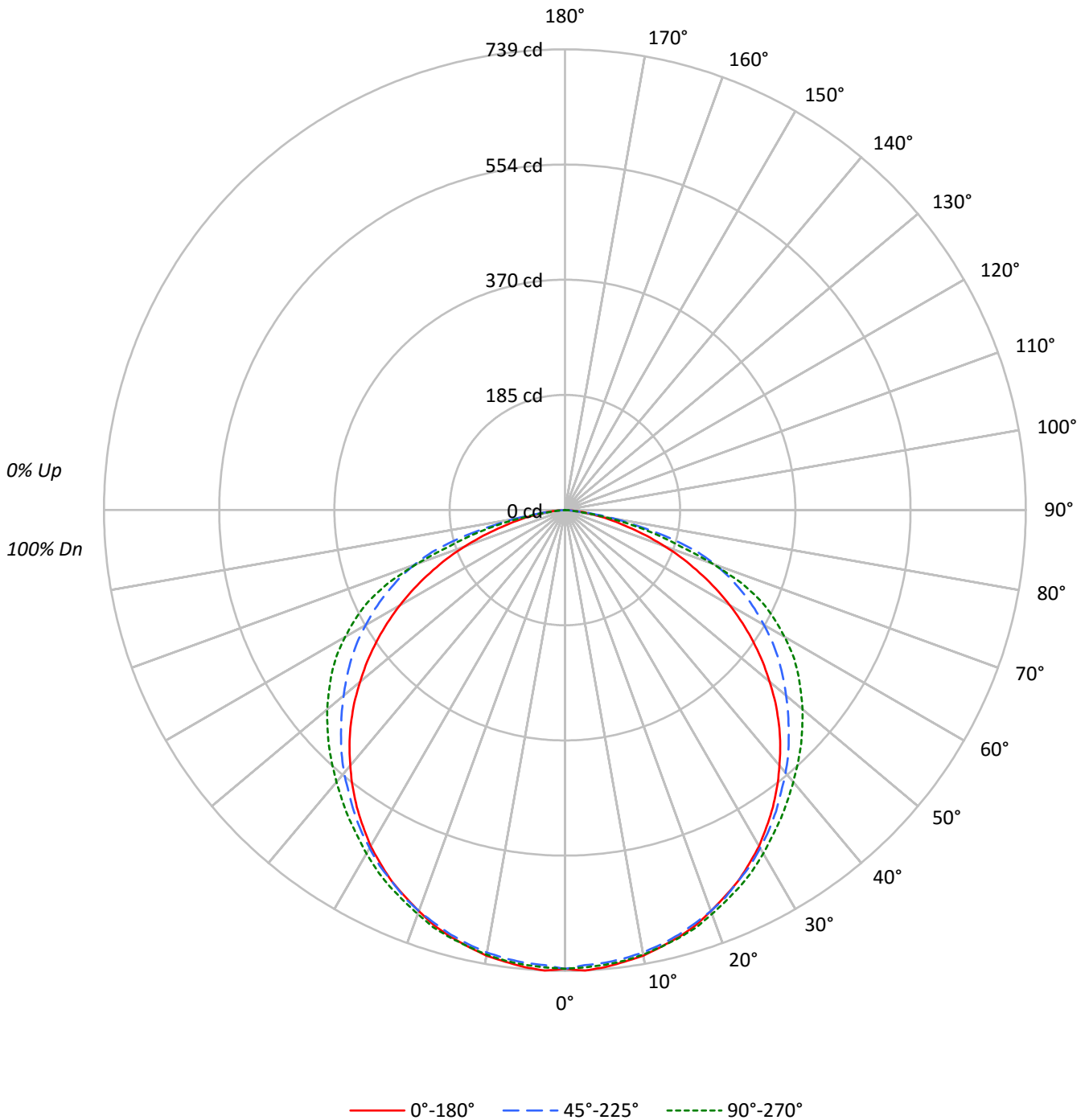
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1980	1980	1980
5°	1988	1969	1978
10°	1982	1968	1978
15°	1974	1964	1978
20°	1960	1960	1975
25°	1950	1950	1976
30°	1935	1945	1977
35°	1910	1938	1984
40°	1880	1934	2001
45°	1847	1932	2037
50°	1795	1939	2082
55°	1730	1963	2140
60°	1643	1985	2188
65°	1518	2010	2217
70°	1349	2024	1983
75°	1088	1820	1588
80°	851	1275	1037
85°	584	371	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.2
10°-20°	199.8	9.1
20°-30°	304.3	13.8
30°-40°	370.6	16.9
40°-50°	393.2	17.9
50°-60°	371.1	16.9
60°-70°	299.6	13.6
70°-80°	162.5	7.4
80°-90°	26.3	1.2
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°	573.7	26.1
0°-40°	944.3	43.0
0°-60°	1708.6	77.8
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	736	734	729	734	732	70
15°	708	707	705	710	710	200
25°	657	655	657	664	666	302
35°	582	585	590	602	604	364
45°	485	492	508	527	535	374
55°	369	384	418	446	456	329
65°	238	268	316	341	348	236
75°	105	153	175	158	153	114
85°	19	21	12	10	9	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.8	735.8	735.8	735.8	735.8
2.5°	739.3	735.8	730.7	735.8	734.1
5°	735.8	734.1	729.0	734.1	732.4
7.5°	730.7	730.7	725.5	729.0	729.0
10°	725.5	723.8	720.4	725.5	723.8
12.5°	717.0	715.2	713.5	718.7	717.0
15°	708.4	706.7	705.0	710.1	710.1
17.5°	698.1	696.4	694.7	701.5	701.5
20°	684.4	684.4	684.4	691.2	689.5
22.5°	670.7	670.7	672.4	679.2	677.5
25°	656.9	655.2	656.9	663.8	665.5
27.5°	639.8	641.5	643.2	650.1	651.8
30°	622.6	624.3	626.1	634.6	636.3
32.5°	602.0	605.5	608.9	619.2	619.2
35°	581.5	584.9	590.0	602.0	603.8
37.5°	559.2	562.6	569.5	583.2	586.6
40°	535.2	540.3	550.6	564.3	569.5
42.5°	511.1	518.0	530.0	545.4	552.3
45°	485.4	492.3	507.7	526.6	535.2
47.5°	458.0	466.5	485.4	509.4	516.3
50°	428.8	440.8	463.1	488.8	497.4
52.5°	399.6	413.4	440.8	468.3	476.8
55°	368.8	384.2	418.5	446.0	456.2
57.5°	337.9	355.1	394.5	423.7	434.0
60°	305.3	325.9	368.8	397.9	406.5
62.5°	272.7	296.7	343.0	372.2	379.1
65°	238.4	267.6	315.6	341.3	348.2
67.5°	205.8	240.1	288.2	307.0	307.0
70°	171.5	209.3	257.3	262.4	252.1
72.5°	137.2	180.1	223.0	204.1	195.5
75°	104.6	152.7	175.0	157.8	152.7
77.5°	78.9	123.5	123.5	113.2	109.8
80°	54.9	94.3	82.3	72.0	66.9
82.5°	36.0	53.2	42.9	34.3	29.2
85°	18.9	20.6	12.0	10.3	8.6
87.5°	6.9	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)