

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: P307583

Luminaire Tested: **14FCZ2-25-UNV-L82765-CP125-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: P307583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
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-CP125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB 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: 2101.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

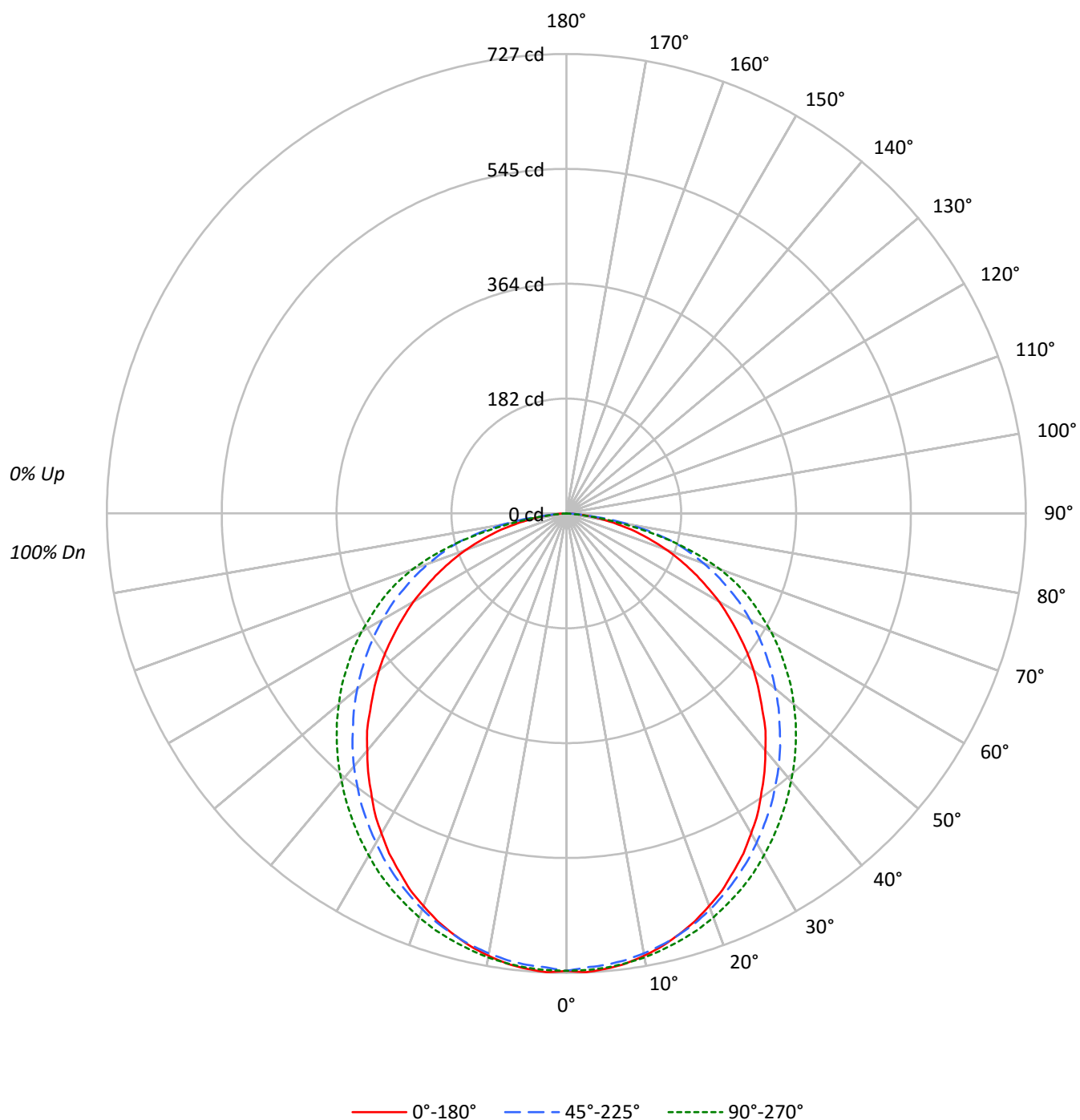
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307583

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-CP125-W2A-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P307583

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-CP125-W2A-U-2700K

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	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	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	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1954	1937	1949
10°	1942	1932	1950
15°	1921	1923	1948
20°	1893	1909	1948
25°	1857	1890	1946
30°	1817	1871	1942
35°	1768	1854	1941
40°	1721	1837	1944
45°	1669	1817	1954
50°	1620	1808	1967
55°	1559	1803	1985
60°	1503	1805	2012
65°	1426	1811	2043
70°	1338	1825	2042
75°	1213	1841	1847
80°	995	1590	1314
85°	738	753	303



TEST NUMBER: P307583

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-CP125-W2A-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.3
10°-20°	195.6	9.3
20°-30°	294.7	14.0
30°-40°	353.7	16.8
40°-50°	368.6	17.5
50°-60°	341.3	16.2
60°-70°	275.7	13.1
70°-80°	168.1	8.0
80°-90°	34.7	1.7
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°	558.9	26.6
0°-40°	912.5	43.4
0°-60°	1622.5	77.2
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	722	717	722	722	69
15°	690	690	690	699	699	194
25°	625	629	637	653	655	288
35°	538	547	564	585	591	337
45°	438	452	477	504	514	339
55°	332	350	384	414	423	298
65°	224	246	284	313	321	221
75°	117	142	177	180	178	123
85°	24	36	24	14	10	29
90°	0	0	0	0	0	



TEST NUMBER: P307583

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-CP125-W2A-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.8	723.8	723.8	723.8	723.8
2.5°	726.6	724.3	719.1	724.3	723.3
5°	723.3	721.5	717.2	722.4	721.5
7.5°	718.6	716.8	713.0	719.1	718.2
10°	710.7	709.7	706.9	714.0	713.5
12.5°	701.3	700.8	699.4	707.4	706.9
15°	689.6	690.1	690.1	699.4	699.4
17.5°	676.5	677.4	679.3	689.6	691.0
20°	661.0	662.9	666.6	678.4	680.2
22.5°	645.1	646.5	652.1	666.2	668.1
25°	625.4	629.2	636.7	652.6	655.4
27.5°	606.7	610.0	620.3	636.7	641.3
30°	584.7	589.8	602.0	619.8	625.0
32.5°	563.6	569.2	583.3	603.9	608.6
35°	538.3	546.7	564.5	585.1	590.8
37.5°	515.3	523.3	543.4	565.9	572.5
40°	490.0	499.9	522.8	546.7	553.3
42.5°	466.6	476.0	500.8	525.2	534.1
45°	438.5	451.6	477.4	504.1	513.5
47.5°	412.7	425.8	455.4	483.9	492.4
50°	387.0	401.0	431.9	461.5	469.9
52.5°	360.3	375.3	408.5	438.0	447.9
55°	332.2	349.5	384.2	414.1	423.0
57.5°	305.4	323.3	360.3	390.7	399.6
60°	279.2	297.5	335.4	364.5	373.8
62.5°	250.2	271.7	311.1	339.6	346.7
65°	223.9	246.0	284.4	312.9	320.9
67.5°	196.3	220.2	258.6	284.8	292.3
70°	170.1	194.9	231.9	256.3	259.5
72.5°	141.9	167.2	204.7	220.2	220.2
75°	116.7	142.4	177.1	179.9	177.6
77.5°	89.0	117.6	140.1	134.5	128.8
80°	64.2	92.3	102.6	92.3	84.8
82.5°	43.1	67.0	61.8	49.2	43.6
85°	23.9	35.6	24.4	13.6	9.8
87.5°	8.9	8.0	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)