

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: P307863

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP187-W2A-U-3000K**

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: P307863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CP187-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.187" POLYCARB 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: 2092.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

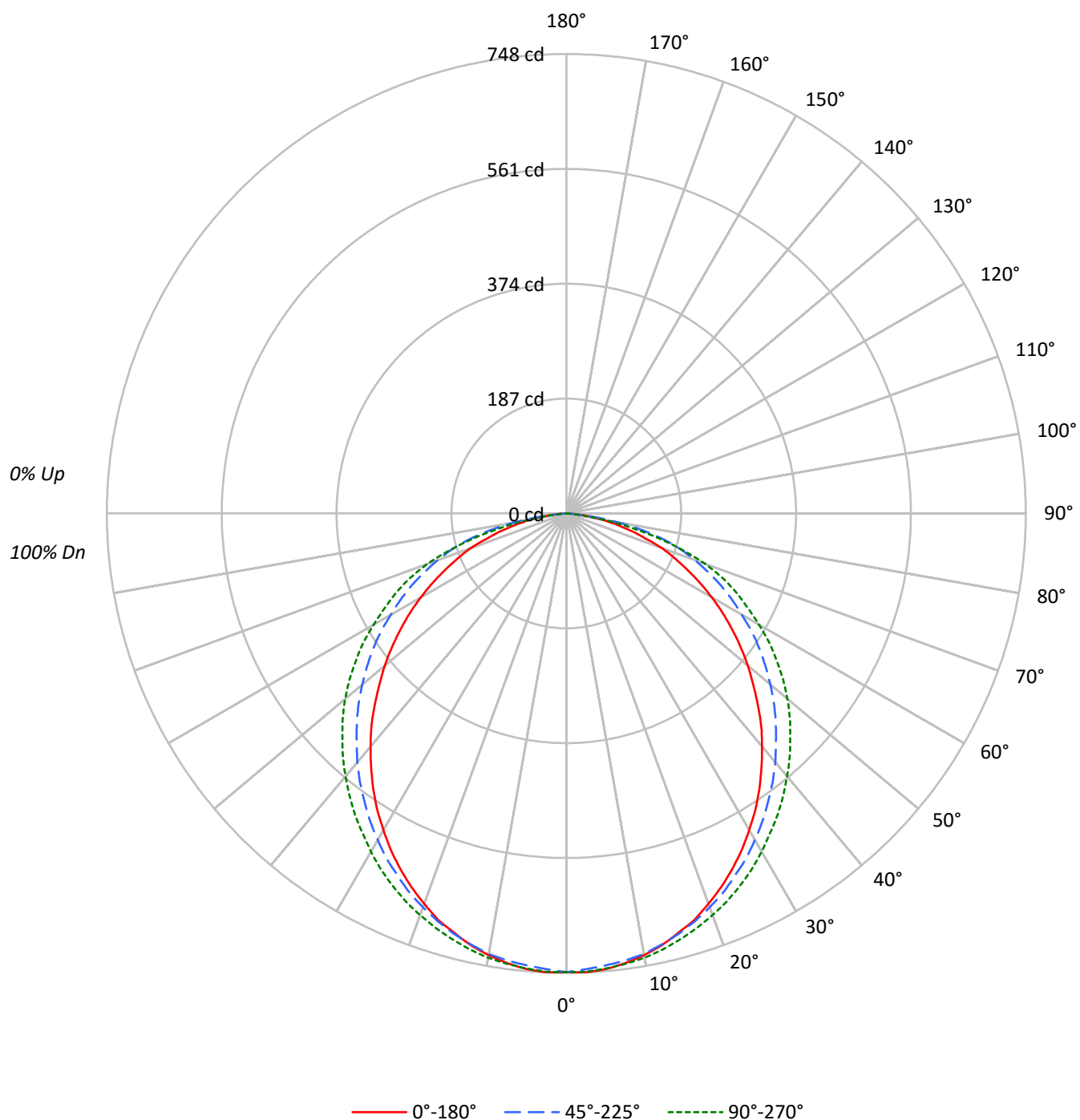
Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307863

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP187-W2A-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P307863

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP187-W2A-U-3000K

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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2010	2010	2010
5°	2012	1995	2009
10°	1995	1990	2007
15°	1968	1974	2000
20°	1937	1954	1993
25°	1897	1931	1986
30°	1850	1908	1976
35°	1799	1881	1969
40°	1742	1858	1964
45°	1678	1835	1962
50°	1616	1815	1967
55°	1547	1801	1961
60°	1474	1775	1948
65°	1387	1770	1948
70°	1306	1755	1893
75°	1132	1714	1618
80°	916	1382	1077
85°	608	482	321



TEST NUMBER: P307863

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP187-W2A-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.4
10°-20°	200.7	9.6
20°-30°	301.0	14.4
30°-40°	359.1	17.2
40°-50°	371.2	17.7
50°-60°	338.9	16.2
60°-70°	266.7	12.7
70°-80°	155.2	7.4
80°-90°	28.6	1.4
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°	572.2	27.4
0°-40°	931.3	44.5
0°-60°	1641.4	78.5
0°-90°	2092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	745	743	738	745	744	71
15°	706	707	708	718	718	199
25°	639	642	650	666	669	294
35°	548	555	573	594	600	342
45°	441	455	482	509	516	340
55°	330	348	384	412	418	295
65°	218	241	278	300	306	216
75°	109	135	165	162	156	116
85°	20	28	16	12	10	26
90°	0	0	0	0	0	



TEST NUMBER: P307863

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP187-W2A-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.8	746.8	746.8	746.8	746.8
2.5°	747.8	745.8	742.7	747.8	746.8
5°	744.7	742.7	738.5	744.7	743.7
7.5°	738.5	736.4	734.4	740.6	739.5
10°	730.2	729.2	728.1	735.4	734.4
12.5°	719.8	719.8	718.8	727.1	727.1
15°	706.4	707.4	708.4	717.8	717.8
17.5°	693.9	692.9	696.0	706.4	707.4
20°	676.3	678.4	682.5	694.9	696.0
22.5°	658.6	660.7	668.0	680.4	683.5
25°	638.9	642.0	650.3	665.9	669.0
27.5°	618.2	622.3	633.8	650.3	653.5
30°	595.4	601.6	614.0	632.7	635.8
32.5°	572.6	578.8	594.3	613.0	617.2
35°	547.7	554.9	572.6	594.3	599.5
37.5°	521.7	531.1	551.8	573.6	579.8
40°	495.8	506.2	529.0	551.8	559.1
42.5°	469.9	480.2	505.1	531.1	538.3
45°	440.8	455.3	482.3	509.3	515.5
47.5°	412.8	428.4	458.5	485.4	493.7
50°	385.9	401.4	433.6	461.6	469.9
52.5°	357.8	374.4	408.7	437.7	445.0
55°	329.8	347.5	383.8	411.8	418.0
57.5°	301.8	320.5	357.8	384.8	392.1
60°	273.8	293.5	329.8	356.8	362.0
62.5°	245.8	266.6	303.9	327.8	333.0
65°	217.8	240.6	278.0	299.8	306.0
67.5°	190.9	213.7	250.0	270.7	275.9
70°	166.0	186.7	223.0	238.6	240.6
72.5°	134.8	160.8	196.0	204.3	199.1
75°	108.9	134.8	164.9	161.8	155.6
77.5°	83.0	108.9	128.6	118.2	109.9
80°	59.1	85.1	89.2	73.6	69.5
82.5°	38.4	59.1	49.8	38.4	31.1
85°	19.7	28.0	15.6	12.4	10.4
87.5°	6.2	4.1	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)