

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: P307805

Luminaire Tested: **14FCZ2-20-UNV-L82765-S-CA125-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: P307805
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: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 2103.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

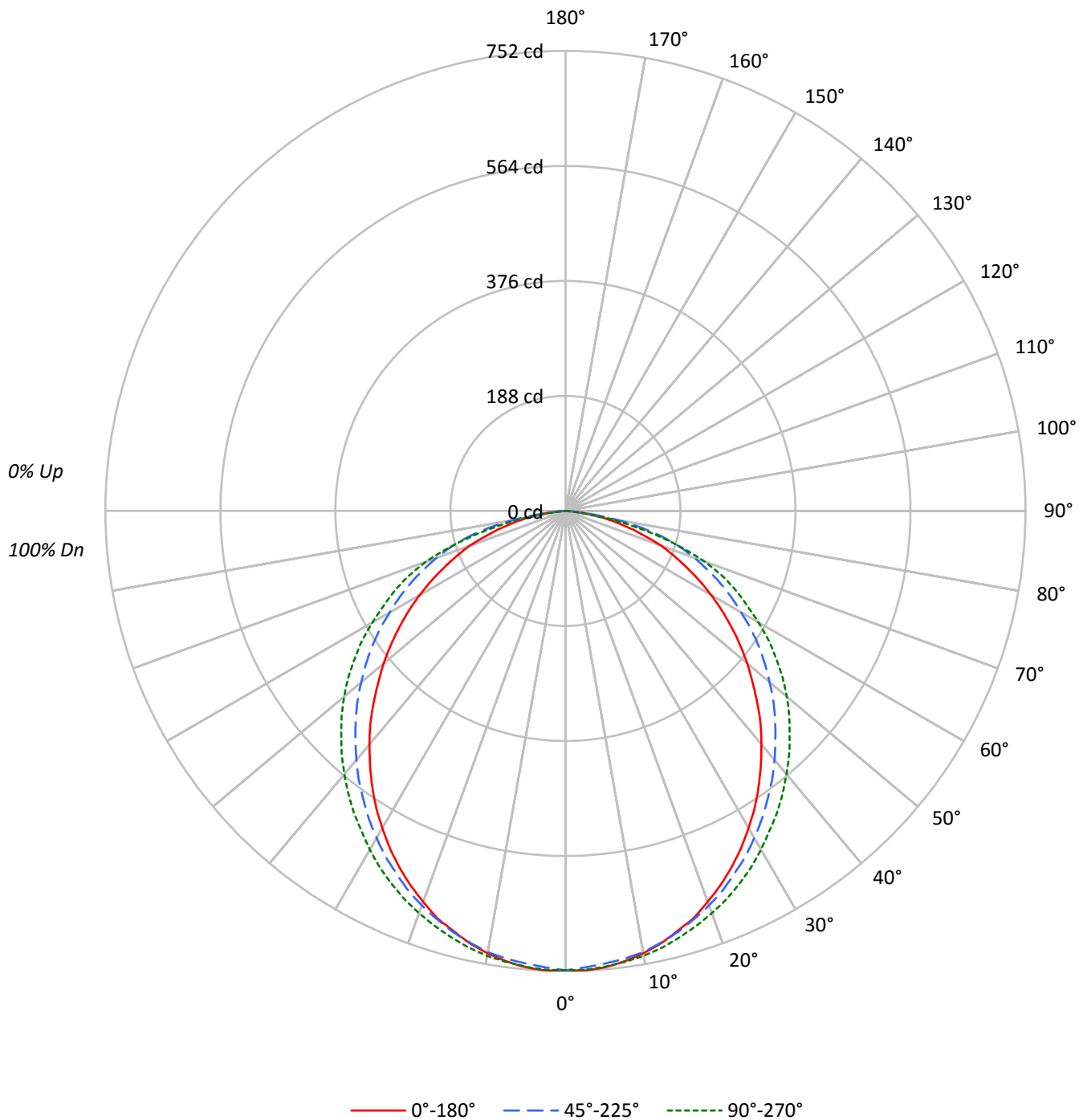
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307805

CATALOG NUMBER: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P307805

CATALOG NUMBER: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-5500K

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°	2020	2020	2020
5°	2022	2005	2019
10°	2006	2000	2017
15°	1978	1984	2010
20°	1947	1965	2003
25°	1907	1941	1997
30°	1860	1918	1986
35°	1808	1891	1980
40°	1751	1868	1974
45°	1686	1845	1972
50°	1624	1824	1977
55°	1556	1810	1971
60°	1482	1785	1958
65°	1394	1779	1959
70°	1312	1764	1903
75°	1138	1724	1626
80°	921	1390	1083
85°	611	482	321



TEST NUMBER: P307805

CATALOG NUMBER: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.4
10°-20°	201.7	9.6
20°-30°	302.6	14.4
30°-40°	361.0	17.2
40°-50°	373.2	17.7
50°-60°	340.7	16.2
60°-70°	268.1	12.7
70°-80°	156.1	7.4
80°-90°	28.8	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°	575.2	27.4
0°-40°	936.2	44.5
0°-60°	1650.0	78.5
0°-90°	2103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	749	747	742	749	748	71
15°	710	711	712	722	722	200
25°	642	645	654	669	672	296
35°	550	558	576	598	603	344
45°	443	458	485	512	518	342
55°	332	349	386	414	420	297
65°	219	242	279	301	308	217
75°	110	136	166	163	156	116
85°	20	28	16	12	10	26
90°	0	0	0	0	0	



TEST NUMBER: P307805

CATALOG NUMBER: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.7	750.7	750.7	750.7	750.7
2.5°	751.8	749.7	746.6	751.8	750.7
5°	748.7	746.6	742.4	748.7	747.6
7.5°	742.4	740.3	738.2	744.5	743.4
10°	734.1	733.0	732.0	739.3	738.2
12.5°	723.6	723.6	722.6	730.9	730.9
15°	710.1	711.1	712.2	721.5	721.5
17.5°	697.6	696.5	699.6	710.1	711.1
20°	679.8	681.9	686.1	698.6	699.6
22.5°	662.1	664.2	671.5	684.0	687.1
25°	642.3	645.4	653.8	669.4	672.5
27.5°	621.4	625.6	637.1	653.8	656.9
30°	598.5	604.8	617.3	636.0	639.2
32.5°	575.6	581.8	597.5	616.2	620.4
35°	550.5	557.8	575.6	597.5	602.7
37.5°	524.5	533.9	554.7	576.6	582.9
40°	498.4	508.8	531.8	554.7	562.0
42.5°	472.3	482.8	507.8	533.9	541.2
45°	443.1	457.7	484.9	512.0	518.2
47.5°	415.0	430.6	460.9	488.0	496.3
50°	387.9	403.5	435.8	464.0	472.3
52.5°	359.7	376.4	410.8	440.0	447.3
55°	331.6	349.3	385.8	413.9	420.2
57.5°	303.4	322.2	359.7	386.8	394.1
60°	275.3	295.1	331.6	358.7	363.9
62.5°	247.1	268.0	305.5	329.5	334.7
65°	219.0	241.9	279.4	301.3	307.6
67.5°	191.9	214.8	251.3	272.1	277.4
70°	166.8	187.7	224.2	239.8	241.9
72.5°	135.5	161.6	197.1	205.4	200.2
75°	109.5	135.5	165.8	162.7	156.4
77.5°	83.4	109.5	129.3	118.9	110.5
80°	59.4	85.5	89.7	74.0	69.9
82.5°	38.6	59.4	50.0	38.6	31.3
85°	19.8	28.2	15.6	12.5	10.4
87.5°	6.3	4.2	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)