

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: P307576

Luminaire Tested: **14FCZ2-25-UNV-L82765-CA125-W2A-U-3500K**

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: P307576
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-CA125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3500K 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: 2282.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

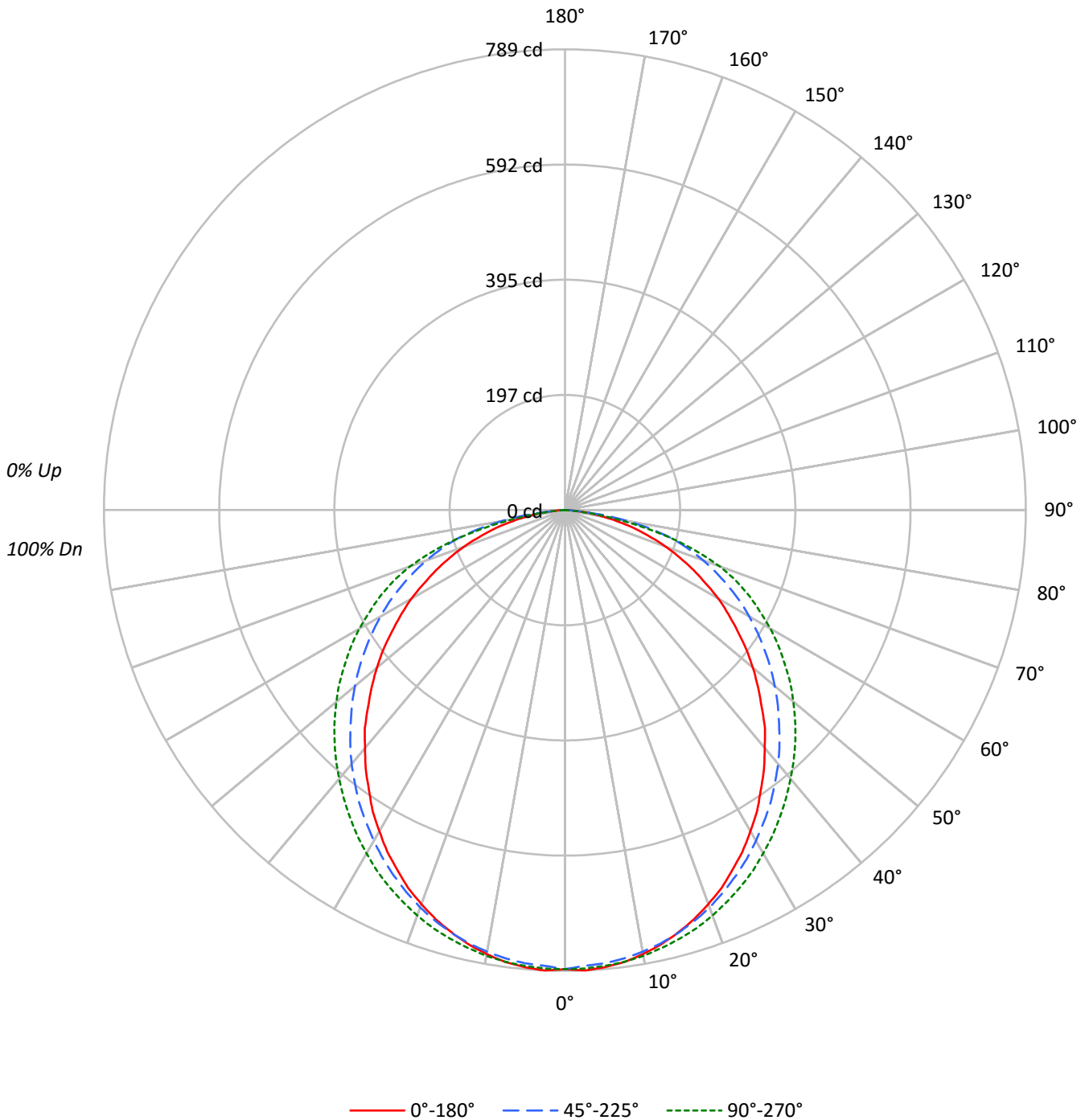
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-25-UNV-L82765-CA125-W2A-U-3500K

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2116	2116	2116
5°	2122	2104	2117
10°	2109	2098	2118
15°	2087	2088	2116
20°	2056	2074	2116
25°	2017	2053	2114
30°	1973	2032	2109
35°	1921	2014	2108
40°	1870	1995	2111
45°	1813	1973	2122
50°	1760	1964	2137
55°	1693	1957	2156
60°	1632	1961	2186
65°	1549	1967	2220
70°	1453	1982	2218
75°	1317	1999	2006
80°	1080	1726	1427
85°	803	818	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.3
10°-20°	212.5	9.3
20°-30°	320.1	14.0
30°-40°	384.1	16.8
40°-50°	400.4	17.5
50°-60°	370.7	16.2
60°-70°	299.5	13.1
70°-80°	182.6	8.0
80°-90°	37.7	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°	607.0	26.6
0°-40°	991.2	43.4
0°-60°	1762.2	77.2
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	786	784	779	785	784	75
15°	749	750	750	760	760	211
25°	679	683	692	709	712	313
35°	585	594	613	636	642	366
45°	476	490	518	548	558	368
55°	361	380	417	450	460	323
65°	243	267	309	340	349	240
75°	127	155	192	195	193	133
85°	26	39	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.2	786.2	786.2	786.2	786.2
2.5°	789.2	786.7	781.1	786.7	785.6
5°	785.6	783.6	779.0	784.6	783.6
7.5°	780.6	778.5	774.5	781.1	780.1
10°	771.9	770.9	767.8	775.5	775.0
12.5°	761.7	761.2	759.7	768.3	767.8
15°	749.0	749.5	749.5	759.7	759.7
17.5°	734.8	735.8	737.8	749.0	750.5
20°	718.0	720.0	724.1	736.8	738.8
22.5°	700.7	702.2	708.3	723.6	725.6
25°	679.3	683.4	691.5	708.8	711.9
27.5°	658.9	662.5	673.7	691.5	696.6
30°	635.0	640.6	653.9	673.2	678.8
32.5°	612.1	618.2	633.5	655.9	661.0
35°	584.7	593.8	613.2	635.5	641.6
37.5°	559.7	568.4	590.3	614.7	621.8
40°	532.2	542.9	567.9	593.8	600.9
42.5°	506.8	517.0	543.9	570.4	580.1
45°	476.3	490.5	518.5	547.5	557.7
47.5°	448.3	462.5	494.6	525.6	534.8
50°	420.3	435.6	469.1	501.2	510.4
52.5°	391.3	407.6	443.7	475.8	486.5
55°	360.8	379.6	417.2	449.8	459.5
57.5°	331.8	351.1	391.3	424.4	434.0
60°	303.3	323.1	364.3	395.9	406.1
62.5°	271.7	295.1	337.9	368.9	376.5
65°	243.2	267.1	308.9	339.9	348.6
67.5°	213.2	239.2	280.9	309.4	317.5
70°	184.7	211.7	251.9	278.3	281.9
72.5°	154.2	181.7	222.4	239.2	239.2
75°	126.7	154.7	192.3	195.4	192.9
77.5°	96.7	127.7	152.1	146.0	139.9
80°	69.7	100.2	111.4	100.2	92.1
82.5°	46.8	72.8	67.2	53.4	47.3
85°	26.0	38.7	26.5	14.8	10.7
87.5°	9.7	8.7	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)