

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: P307845

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA125-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: P307845
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-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 2228.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

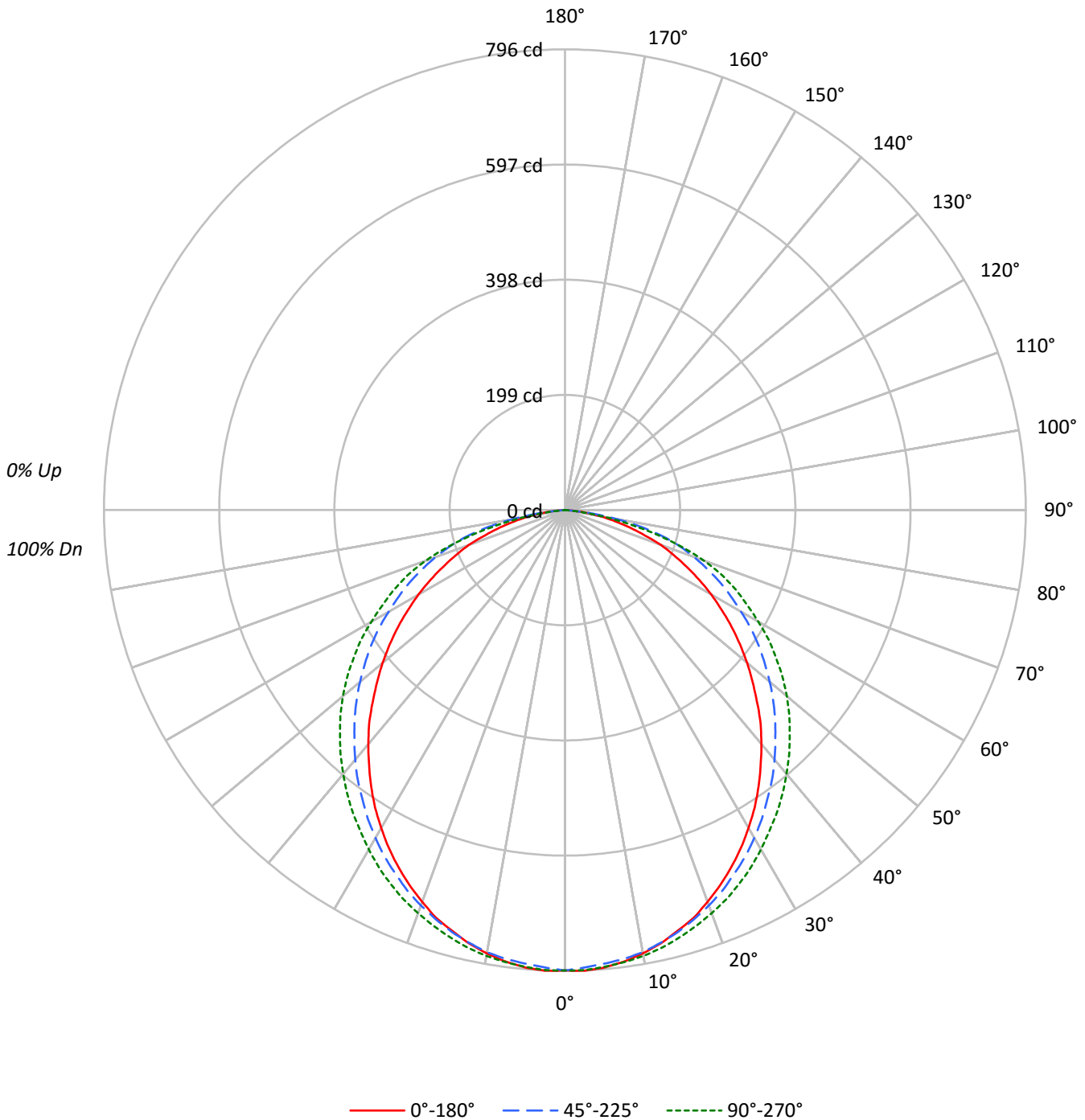
Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2140	2140	2140
5°	2142	2125	2139
10°	2125	2119	2137
15°	2096	2102	2130
20°	2062	2082	2123
25°	2021	2056	2116
30°	1970	2032	2104
35°	1916	2003	2098
40°	1855	1979	2092
45°	1787	1955	2089
50°	1720	1933	2095
55°	1648	1917	2089
60°	1569	1891	2075
65°	1477	1885	2075
70°	1390	1869	2017
75°	1206	1826	1723
80°	976	1472	1147
85°	648	513	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.4
10°-20°	213.7	9.6
20°-30°	320.6	14.4
30°-40°	382.4	17.2
40°-50°	395.4	17.7
50°-60°	361.0	16.2
60°-70°	284.1	12.7
70°-80°	165.3	7.4
80°-90°	30.5	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°	609.4	27.4
0°-40°	991.8	44.5
0°-60°	1748.1	78.5
0°-90°	2228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	793	791	786	793	792	75
15°	752	753	754	764	764	212
25°	680	684	693	709	712	313
35°	583	591	610	633	638	365
45°	470	485	514	542	549	363
55°	351	370	409	439	445	314
65°	232	256	296	319	326	230
75°	116	144	176	172	166	123
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.4	795.4	795.4	795.4	795.4
2.5°	796.5	794.3	790.9	796.5	795.4
5°	793.1	790.9	786.5	793.1	792.0
7.5°	786.5	784.3	782.1	788.7	787.6
10°	777.7	776.6	775.5	783.2	782.1
12.5°	766.6	766.6	765.5	774.4	774.4
15°	752.3	753.4	754.5	764.4	764.4
17.5°	739.0	737.9	741.2	752.3	753.4
20°	720.2	722.5	726.9	740.1	741.2
22.5°	701.5	703.7	711.4	724.7	728.0
25°	680.5	683.8	692.6	709.2	712.5
27.5°	658.4	662.8	675.0	692.6	695.9
30°	634.1	640.7	654.0	673.8	677.2
32.5°	609.8	616.4	633.0	652.9	657.3
35°	583.3	591.0	609.8	633.0	638.5
37.5°	555.6	565.6	587.7	610.9	617.5
40°	528.0	539.1	563.4	587.7	595.4
42.5°	500.4	511.5	538.0	565.6	573.3
45°	469.5	484.9	513.7	542.4	549.0
47.5°	439.7	456.2	488.3	517.0	525.8
50°	410.9	427.5	461.8	491.6	500.4
52.5°	381.1	398.8	435.2	466.2	473.9
55°	351.3	370.1	408.7	438.6	445.2
57.5°	321.5	341.3	381.1	409.8	417.6
60°	291.6	312.6	351.3	380.0	385.5
62.5°	261.8	283.9	323.7	349.1	354.6
65°	232.0	256.3	296.1	319.2	325.9
67.5°	203.3	227.6	266.2	288.3	293.8
70°	176.7	198.8	237.5	254.1	256.3
72.5°	143.6	171.2	208.8	217.6	212.1
75°	116.0	143.6	175.6	172.3	165.7
77.5°	88.4	116.0	137.0	125.9	117.1
80°	63.0	90.6	95.0	78.4	74.0
82.5°	40.9	63.0	53.0	40.9	33.1
85°	21.0	29.8	16.6	13.3	11.0
87.5°	6.6	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)