

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: P307580

Luminaire Tested: **14FCZ2-25-UNV-L82765-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: P307580
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-5500K
Description: 1'X4' TROFFER LED MODULE,RIBBED 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

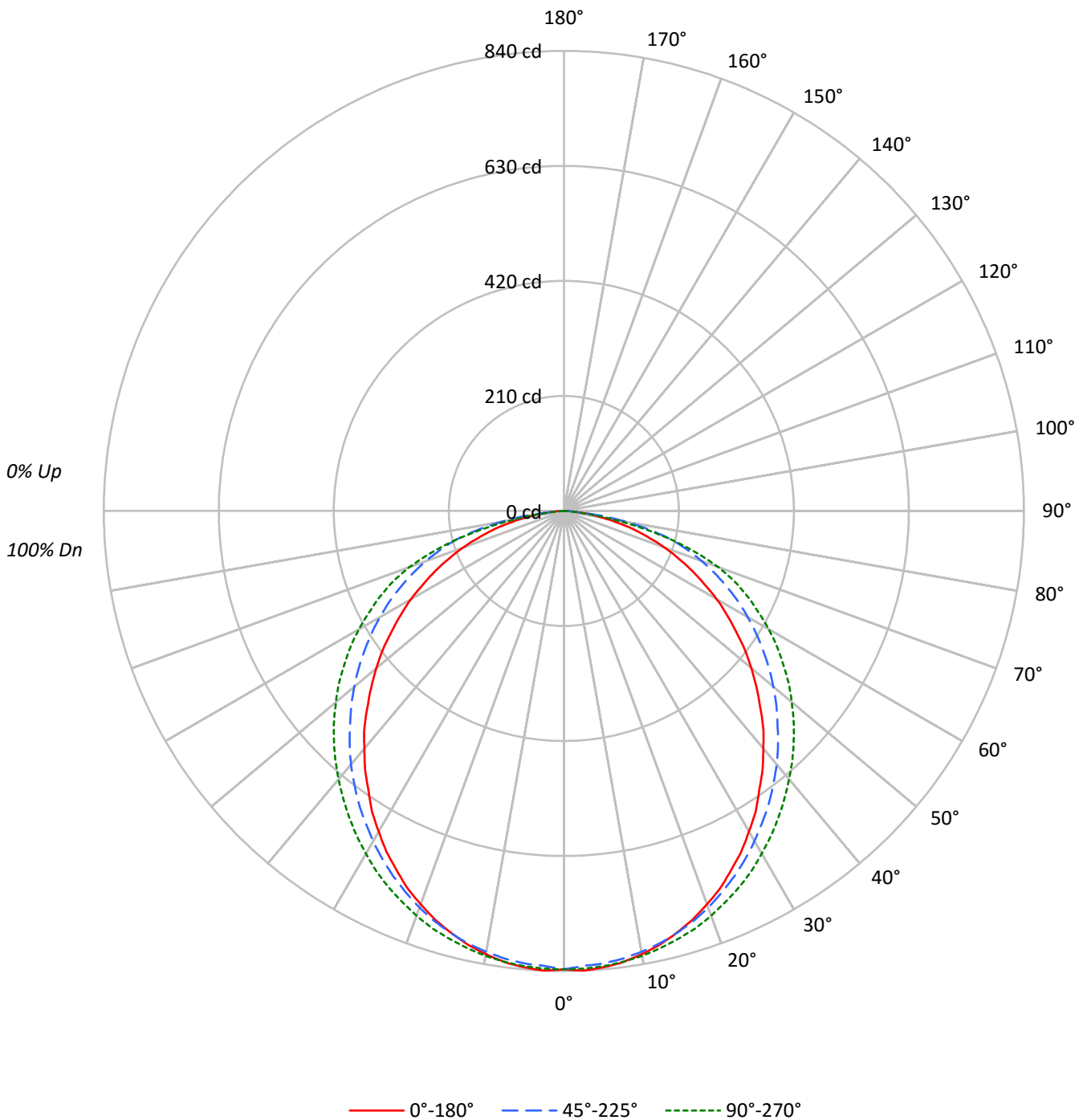
Lumens per Lamp: N/A
Luminaire Lumens: 2429.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.2
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	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°	2252	2252	2252
5°	2259	2240	2253
10°	2245	2233	2254
15°	2221	2223	2253
20°	2188	2207	2252
25°	2147	2186	2250
30°	2100	2163	2245
35°	2044	2144	2244
40°	1990	2123	2247
45°	1929	2100	2259
50°	1873	2091	2274
55°	1802	2084	2295
60°	1737	2087	2326
65°	1649	2094	2362
70°	1547	2109	2361
75°	1403	2128	2135
80°	1150	1838	1519
85°	852	871	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.3
10°-20°	226.2	9.3
20°-30°	340.7	14.0
30°-40°	408.9	16.8
40°-50°	426.2	17.5
50°-60°	394.5	16.2
60°-70°	318.8	13.1
70°-80°	194.4	8.0
80°-90°	40.1	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°	646.1	26.6
0°-40°	1055.0	43.4
0°-60°	1875.7	77.2
0°-90°	2429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	836	834	829	835	834	79
15°	797	798	798	809	809	225
25°	723	727	736	754	758	333
35°	622	632	653	676	683	390
45°	507	522	552	583	594	392
55°	384	404	444	479	489	344
65°	259	284	329	362	371	256
75°	135	165	205	208	205	142
85°	28	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.8	836.8	836.8	836.8	836.8
2.5°	840.0	837.3	831.4	837.3	836.3
5°	836.3	834.1	829.2	835.2	834.1
7.5°	830.8	828.7	824.3	831.4	830.3
10°	821.6	820.5	817.3	825.4	824.9
12.5°	810.8	810.3	808.6	817.8	817.3
15°	797.3	797.8	797.8	808.6	808.6
17.5°	782.1	783.2	785.3	797.3	798.9
20°	764.2	766.4	770.7	784.3	786.4
22.5°	745.8	747.4	753.9	770.2	772.3
25°	723.1	727.4	736.1	754.5	757.7
27.5°	701.4	705.2	717.1	736.1	741.5
30°	675.9	681.9	696.0	716.6	722.5
32.5°	651.6	658.1	674.3	698.1	703.6
35°	622.3	632.1	652.6	676.5	683.0
37.5°	595.8	605.0	628.3	654.3	661.9
40°	566.5	577.9	604.4	632.1	639.6
42.5°	539.5	550.3	579.0	607.2	617.4
45°	507.0	522.1	551.9	582.8	593.6
47.5°	477.2	492.3	526.5	559.5	569.2
50°	447.4	463.6	499.4	533.5	543.2
52.5°	416.5	433.8	472.3	506.4	517.8
55°	384.0	404.0	444.1	478.8	489.1
57.5°	353.1	373.7	416.5	451.7	462.0
60°	322.8	343.9	387.8	421.4	432.2
62.5°	289.2	314.1	359.6	392.7	400.8
65°	258.9	284.3	328.8	361.8	371.0
67.5°	226.9	254.6	299.0	329.3	338.0
70°	196.6	225.3	268.1	296.3	300.1
72.5°	164.1	193.4	236.7	254.6	254.6
75°	134.9	164.7	204.7	208.0	205.3
77.5°	102.9	135.9	161.9	155.4	148.9
80°	74.2	106.7	118.6	106.7	98.0
82.5°	49.8	77.5	71.5	56.9	50.4
85°	27.6	41.2	28.2	15.7	11.4
87.5°	10.3	9.2	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)