

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: P307901

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K**

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: P307901
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: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 4000K 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: 2761.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

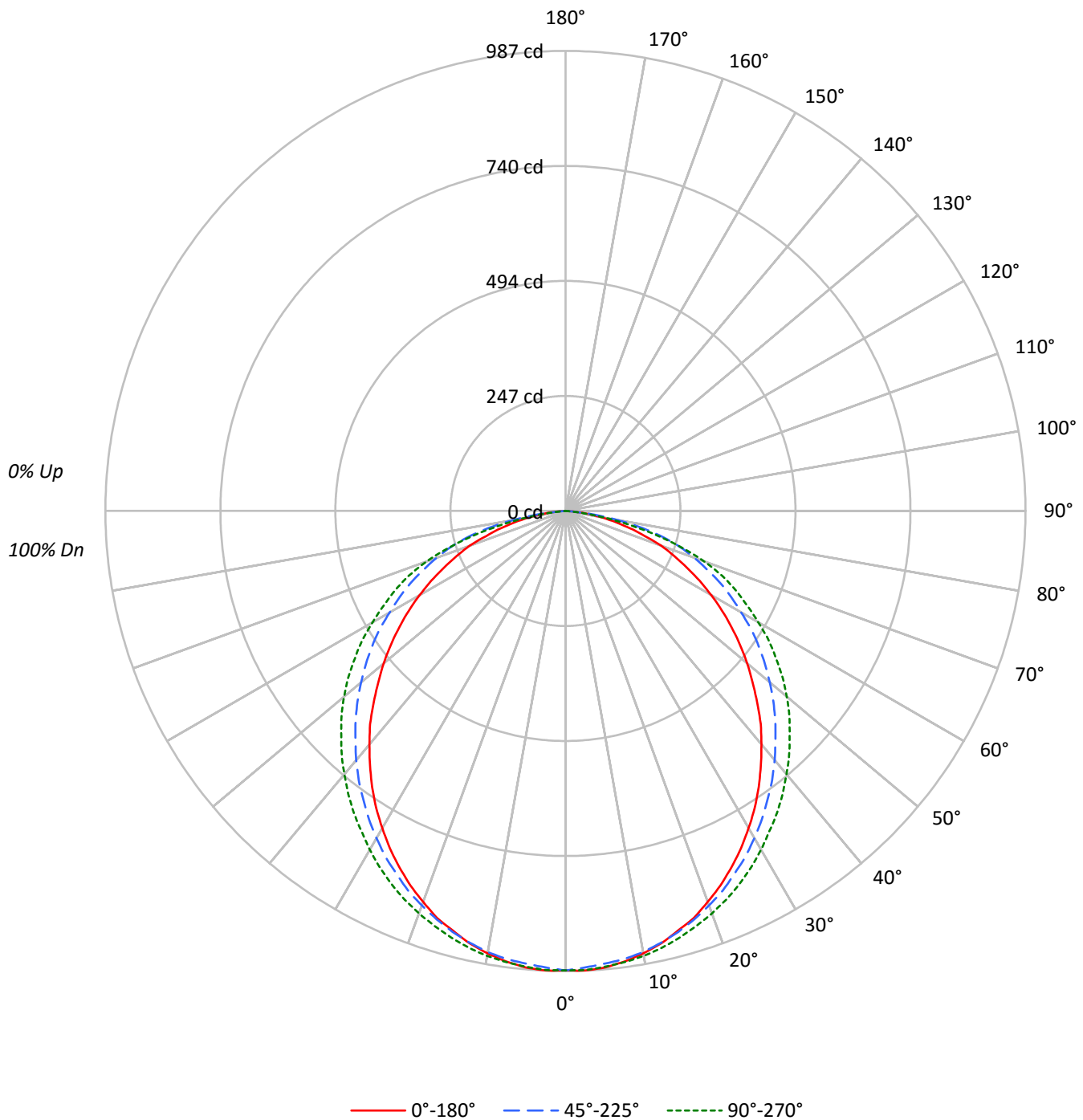
Input Watts (W): 24.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307901

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P307901

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K

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°	2652	2652	2652
5°	2655	2633	2651
10°	2633	2626	2648
15°	2597	2605	2639
20°	2556	2580	2631
25°	2504	2548	2622
30°	2442	2518	2608
35°	2374	2483	2599
40°	2298	2453	2592
45°	2214	2423	2589
50°	2132	2395	2596
55°	2042	2376	2588
60°	1945	2343	2571
65°	1831	2336	2571
70°	1723	2316	2499
75°	1494	2263	2135
80°	1209	1824	1421
85°	803	633	423



TEST NUMBER: P307901

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.4
10°-20°	264.8	9.6
20°-30°	397.3	14.4
30°-40°	473.9	17.2
40°-50°	489.9	17.7
50°-60°	447.3	16.2
60°-70°	352.0	12.7
70°-80°	204.9	7.4
80°-90°	37.8	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°	755.2	27.4
0°-40°	1229.1	44.5
0°-60°	2166.4	78.5
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	983	980	975	983	982	93
15°	932	934	935	947	947	263
25°	843	847	858	879	883	388
35°	723	732	756	784	791	452
45°	582	601	637	672	680	449
55°	435	459	506	544	552	389
65°	288	318	367	396	404	285
75°	144	178	218	214	205	153
85°	26	37	20	16	14	34
90°	0	0	0	0	0	



TEST NUMBER: P307901

CATALOG NUMBER: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.6	985.6	985.6	985.6	985.6
2.5°	987.0	984.3	980.2	987.0	985.6
5°	982.9	980.2	974.7	982.9	981.5
7.5°	974.7	971.9	969.2	977.4	976.0
10°	963.7	962.4	961.0	970.6	969.2
12.5°	950.0	950.0	948.7	959.6	959.6
15°	932.2	933.6	935.0	947.3	947.3
17.5°	915.8	914.4	918.6	932.2	933.6
20°	892.5	895.3	900.8	917.2	918.6
22.5°	869.3	872.0	881.6	898.0	902.1
25°	843.3	847.4	858.3	878.9	883.0
27.5°	815.9	821.4	836.4	858.3	862.4
30°	785.8	794.0	810.4	835.0	839.2
32.5°	755.7	763.9	784.4	809.0	814.5
35°	722.8	732.4	755.7	784.4	791.2
37.5°	688.6	700.9	728.3	757.0	765.2
40°	654.3	668.0	698.2	728.3	737.9
42.5°	620.1	633.8	666.7	700.9	710.5
45°	581.8	601.0	636.6	672.1	680.4
47.5°	544.8	565.4	605.1	640.7	651.6
50°	509.2	529.8	572.2	609.2	620.1
52.5°	472.3	494.2	539.4	577.7	587.3
55°	435.3	458.6	506.5	543.5	551.7
57.5°	398.4	423.0	472.3	507.9	517.5
60°	361.4	387.4	435.3	470.9	477.8
62.5°	324.4	351.8	401.1	432.6	439.4
65°	287.5	317.6	366.9	395.6	403.8
67.5°	251.9	282.0	329.9	357.3	364.1
70°	219.0	246.4	294.3	314.9	317.6
72.5°	178.0	212.2	258.7	269.7	262.8
75°	143.7	178.0	217.7	213.6	205.3
77.5°	109.5	143.7	169.7	156.1	145.1
80°	78.0	112.3	117.7	97.2	91.7
82.5°	50.7	78.0	65.7	50.7	41.1
85°	26.0	37.0	20.5	16.4	13.7
87.5°	8.2	5.5	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)