

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: P307903

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CP125-W2A-U-5000K**

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: P307903
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-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2848.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

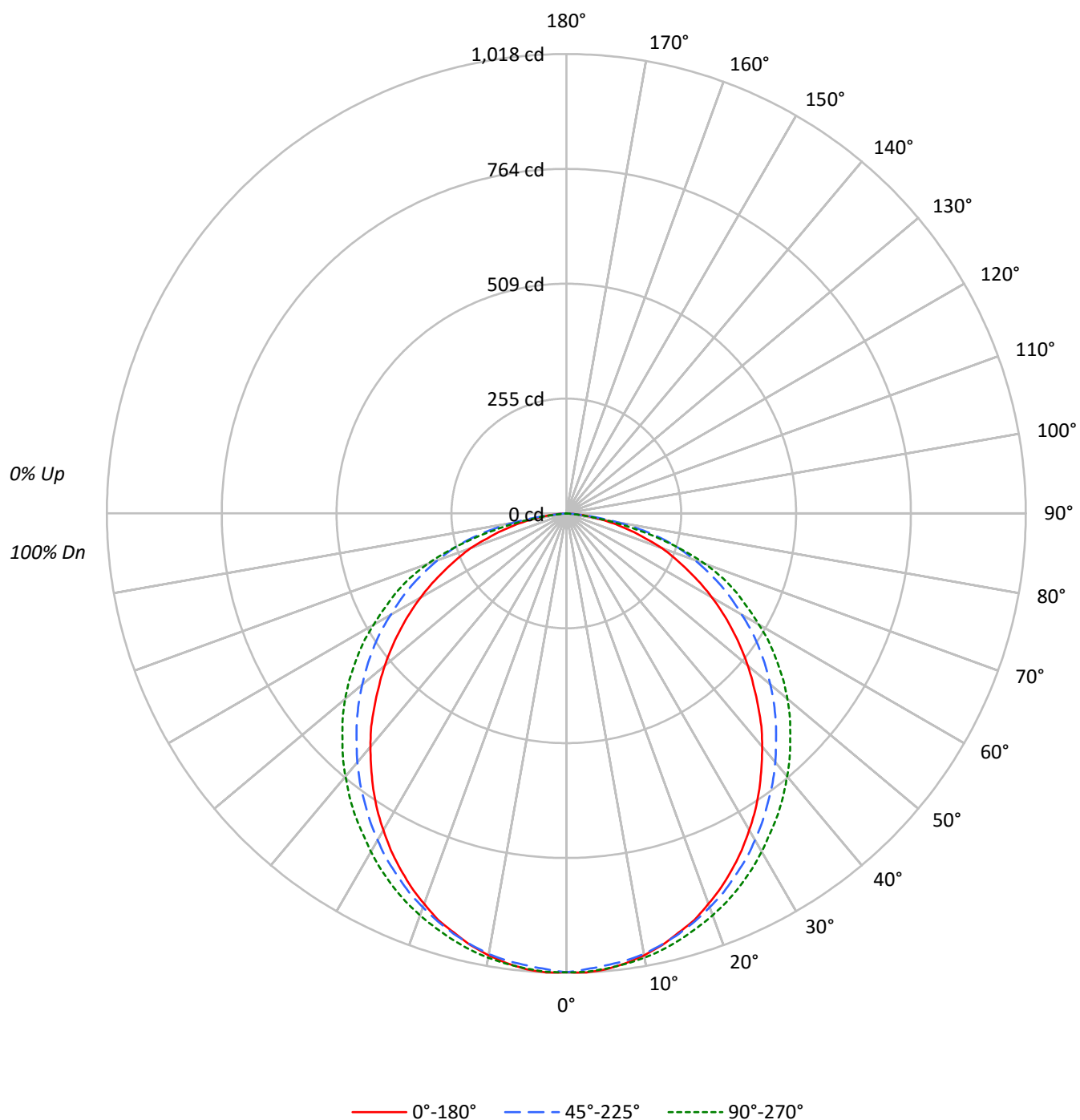
Input Watts (W): 24.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2736	2736	2736
5°	2739	2716	2735
10°	2716	2709	2732
15°	2679	2687	2722
20°	2637	2661	2713
25°	2583	2629	2704
30°	2518	2597	2690
35°	2449	2561	2681
40°	2371	2530	2674
45°	2284	2499	2671
50°	2199	2471	2678
55°	2107	2451	2670
60°	2006	2416	2652
65°	1888	2409	2653
70°	1777	2389	2578
75°	1542	2334	2202
80°	1247	1881	1466
85°	827	655	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.4
10°-20°	273.2	9.6
20°-30°	409.8	14.4
30°-40°	488.8	17.2
40°-50°	505.4	17.7
50°-60°	461.4	16.2
60°-70°	363.1	12.7
70°-80°	211.4	7.4
80°-90°	38.9	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°	779.0	27.4
0°-40°	1267.8	44.5
0°-60°	2234.6	78.5
0°-90°	2848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1014	1011	1005	1014	1012	96
15°	962	963	964	977	977	271
25°	870	874	885	906	911	400
35°	746	756	780	809	816	466
45°	600	620	657	693	702	463
55°	449	473	522	561	569	402
65°	296	328	378	408	417	294
75°	148	184	224	220	212	158
85°	27	38	21	17	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1018.1	1015.3	1011.0	1018.1	1016.7
5°	1013.9	1011.0	1005.4	1013.9	1012.5
7.5°	1005.4	1002.6	999.7	1008.2	1006.8
10°	994.1	992.7	991.3	1001.2	999.7
12.5°	980.0	980.0	978.6	989.9	989.9
15°	961.6	963.0	964.4	977.2	977.2
17.5°	944.7	943.3	947.5	961.6	963.0
20°	920.7	923.5	929.1	946.1	947.5
22.5°	896.7	899.5	909.4	926.3	930.6
25°	869.8	874.1	885.4	906.5	910.8
27.5°	841.6	847.2	862.8	885.4	889.6
30°	810.5	819.0	835.9	861.4	865.6
32.5°	779.5	787.9	809.1	834.5	840.2
35°	745.6	755.5	779.5	809.1	816.2
37.5°	710.3	723.0	751.2	780.9	789.3
40°	675.0	689.1	720.2	751.2	761.1
42.5°	639.7	653.8	687.7	723.0	732.9
45°	600.1	619.9	656.6	693.3	701.8
47.5°	562.0	583.2	624.1	660.8	672.1
50°	525.3	546.5	590.2	628.4	639.7
52.5°	487.2	509.8	556.4	595.9	605.8
55°	449.0	473.0	522.5	560.6	569.1
57.5°	410.9	436.3	487.2	523.9	533.8
60°	372.8	399.6	449.0	485.8	492.8
62.5°	334.7	362.9	413.7	446.2	453.3
65°	296.5	327.6	378.4	408.1	416.6
67.5°	259.8	290.9	340.3	368.5	375.6
70°	225.9	254.2	303.6	324.8	327.6
72.5°	183.6	218.9	266.9	278.2	271.1
75°	148.3	183.6	224.5	220.3	211.8
77.5°	113.0	148.3	175.1	161.0	149.7
80°	80.5	115.8	121.4	100.3	94.6
82.5°	52.2	80.5	67.8	52.2	42.4
85°	26.8	38.1	21.2	16.9	14.1
87.5°	8.5	5.6	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)