

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: P307501

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-6500K**

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: P307501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 6500K 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: 2724.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

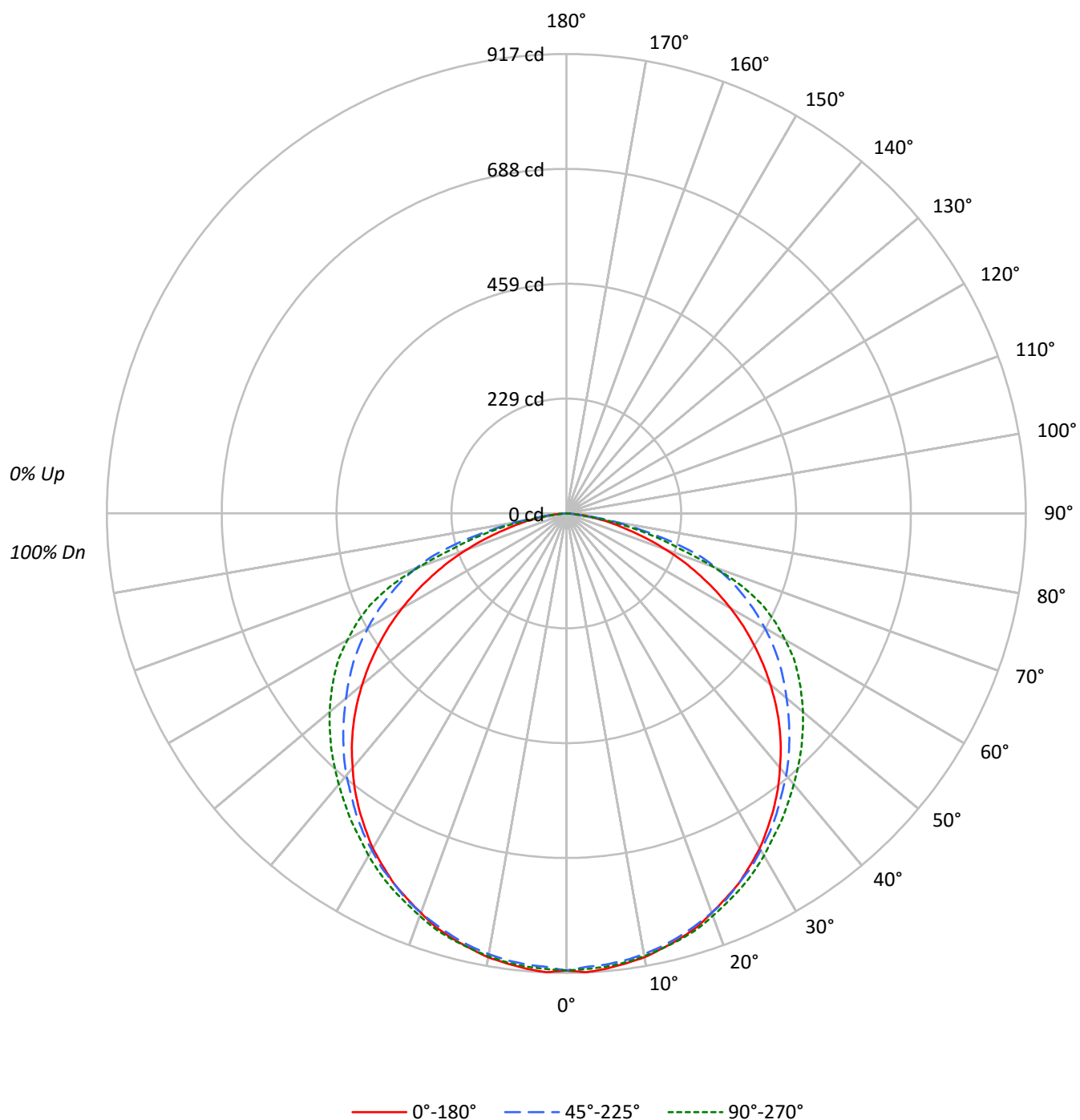
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2455	2455	2455
5°	2464	2441	2453
10°	2458	2441	2452
15°	2447	2435	2453
20°	2430	2430	2448
25°	2418	2418	2450
30°	2399	2412	2452
35°	2368	2403	2459
40°	2331	2398	2480
45°	2290	2396	2525
50°	2226	2404	2582
55°	2145	2434	2654
60°	2037	2461	2713
65°	1882	2492	2749
70°	1674	2510	2460
75°	1349	2255	1968
80°	1055	1582	1285
85°	722	460	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.2
10°-20°	247.8	9.1
20°-30°	377.2	13.8
30°-40°	459.5	16.9
40°-50°	487.5	17.9
50°-60°	460.1	16.9
60°-70°	371.5	13.6
70°-80°	201.5	7.4
80°-90°	32.6	1.2
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°	711.4	26.1
0°-40°	1170.8	43.0
0°-60°	2118.4	77.8
0°-90°	2724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	912	910	904	910	908	87
15°	878	876	874	880	880	248
25°	814	812	814	823	825	375
35°	721	725	732	746	749	451
45°	602	610	630	653	664	463
55°	457	476	519	553	566	408
65°	296	332	391	423	432	293
75°	130	189	217	196	189	142
85°	23	26	15	13	11	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	916.6	912.3	906.0	912.3	910.2
5°	912.3	910.2	903.8	910.2	908.1
7.5°	906.0	906.0	899.6	903.8	903.8
10°	899.6	897.5	893.2	899.6	897.5
12.5°	888.9	886.8	884.7	891.1	888.9
15°	878.3	876.2	874.1	880.4	880.4
17.5°	865.6	863.4	861.3	869.8	869.8
20°	848.5	848.5	848.5	857.0	854.9
22.5°	831.5	831.5	833.7	842.2	840.0
25°	814.5	812.4	814.5	823.0	825.1
27.5°	793.2	795.4	797.5	806.0	808.1
30°	772.0	774.1	776.2	786.9	789.0
32.5°	746.5	750.7	755.0	767.7	767.7
35°	720.9	725.2	731.6	746.5	748.6
37.5°	693.3	697.5	706.1	723.1	727.3
40°	663.5	669.9	682.7	699.7	706.1
42.5°	633.7	642.3	657.1	676.3	684.8
45°	601.8	610.4	629.5	652.9	663.5
47.5°	567.8	578.5	601.8	631.6	640.1
50°	531.7	546.6	574.2	606.1	616.7
52.5°	495.5	512.5	546.6	580.6	591.2
55°	457.2	476.4	518.9	552.9	565.7
57.5°	419.0	440.2	489.1	525.3	538.0
60°	378.5	404.1	457.2	493.4	504.0
62.5°	338.1	367.9	425.3	461.5	470.0
65°	295.6	331.8	391.3	423.2	431.7
67.5°	255.2	297.7	357.3	380.7	380.7
70°	212.7	259.5	319.0	325.4	312.6
72.5°	170.1	223.3	276.5	253.1	242.4
75°	129.7	189.3	216.9	195.7	189.3
77.5°	97.8	153.1	153.1	140.4	136.1
80°	68.1	117.0	102.1	89.3	82.9
82.5°	44.7	65.9	53.2	42.5	36.2
85°	23.4	25.5	14.9	12.8	10.6
87.5°	8.5	4.3	2.1	4.3	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)