

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: P307498

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-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: P307498
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-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 2683.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

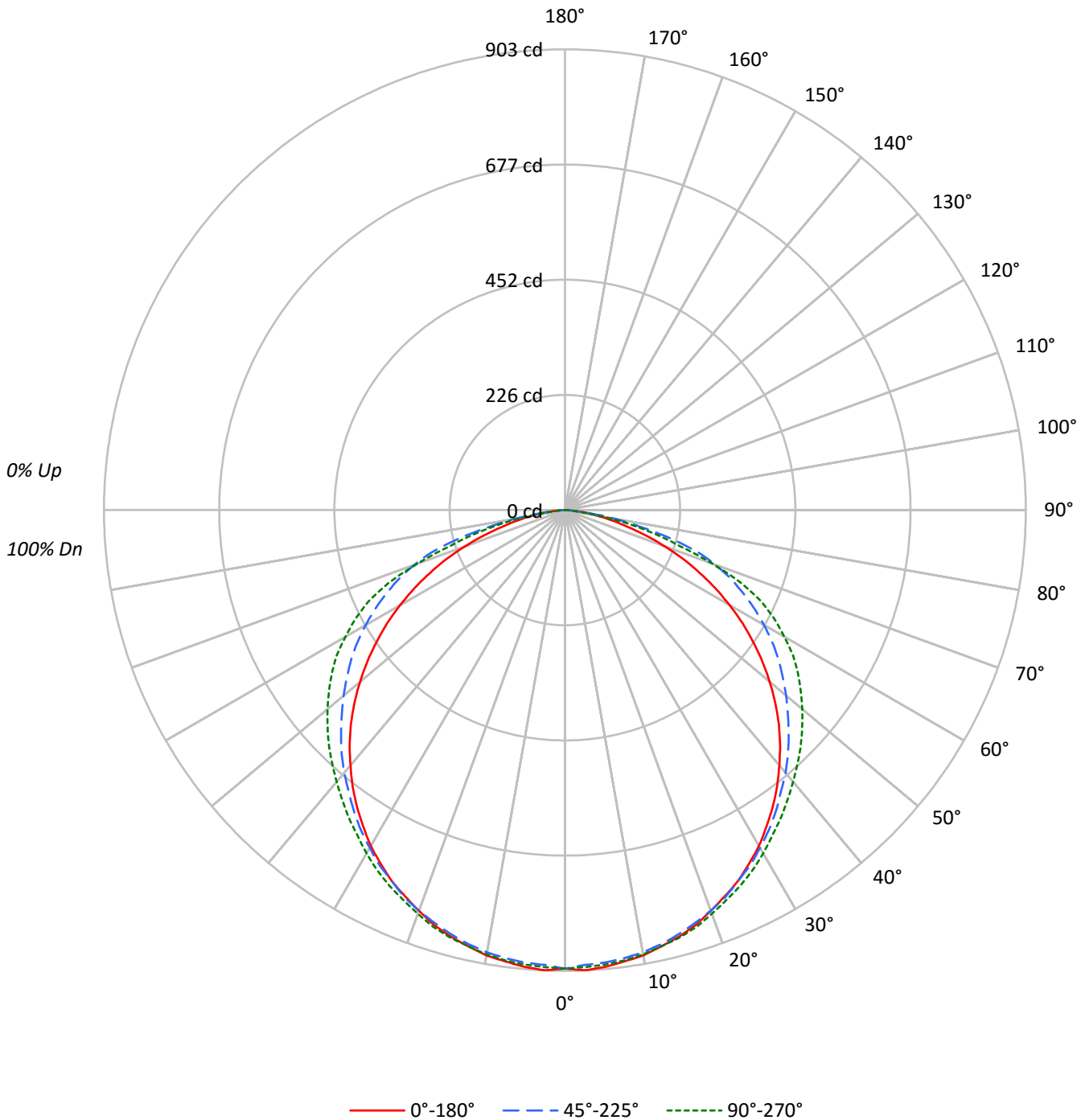
Input Watts (W): 39.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2418	2418	2418
5°	2427	2405	2416
10°	2421	2404	2415
15°	2410	2398	2416
20°	2393	2393	2411
25°	2382	2382	2413
30°	2363	2376	2415
35°	2333	2367	2422
40°	2296	2362	2443
45°	2256	2359	2487
50°	2192	2368	2543
55°	2113	2398	2614
60°	2006	2423	2672
65°	1854	2454	2707
70°	1648	2472	2423
75°	1329	2222	1938
80°	1038	1557	1266
85°	710	454	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.2
10°-20°	244.0	9.1
20°-30°	371.6	13.8
30°-40°	452.6	16.9
40°-50°	480.1	17.9
50°-60°	453.2	16.9
60°-70°	365.9	13.6
70°-80°	198.5	7.4
80°-90°	32.1	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°	700.7	26.1
0°-40°	1153.2	43.0
0°-60°	2086.5	77.8
0°-90°	2683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	899	896	890	896	894	85
15°	865	863	861	867	867	244
25°	802	800	802	811	813	369
35°	710	714	721	735	737	444
45°	593	601	620	643	654	457
55°	450	469	511	545	557	402
65°	291	327	385	417	425	289
75°	128	186	214	193	186	140
85°	23	25	15	13	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	902.8	898.6	892.3	898.6	896.5
5°	898.6	896.5	890.2	896.5	894.4
7.5°	892.3	892.3	886.0	890.2	890.2
10°	886.0	883.9	879.8	886.0	883.9
12.5°	875.6	873.5	871.4	877.7	875.6
15°	865.1	863.0	860.9	867.2	867.2
17.5°	852.5	850.4	848.3	856.7	856.7
20°	835.8	835.8	835.8	844.1	842.0
22.5°	819.0	819.0	821.1	829.5	827.4
25°	802.3	800.2	802.3	810.6	812.7
27.5°	781.3	783.4	785.5	793.9	796.0
30°	760.4	762.5	764.5	775.0	777.1
32.5°	735.2	739.4	743.6	756.2	756.2
35°	710.1	714.3	720.6	735.2	737.3
37.5°	682.9	687.0	695.4	712.2	716.4
40°	653.5	659.8	672.4	689.1	695.4
42.5°	624.2	632.6	647.2	666.1	674.5
45°	592.8	601.2	620.0	643.1	653.5
47.5°	559.3	569.7	592.8	622.1	630.5
50°	523.7	538.3	565.6	597.0	607.4
52.5°	488.1	504.8	538.3	571.8	582.3
55°	450.3	469.2	511.1	544.6	557.2
57.5°	412.6	433.6	481.8	517.4	529.9
60°	372.8	398.0	450.3	486.0	496.4
62.5°	333.0	362.4	418.9	454.5	462.9
65°	291.2	326.8	385.4	416.8	425.2
67.5°	251.4	293.3	351.9	374.9	374.9
70°	209.5	255.5	314.2	320.5	307.9
72.5°	167.6	219.9	272.3	249.3	238.8
75°	127.8	186.4	213.7	192.7	186.4
77.5°	96.4	150.8	150.8	138.2	134.1
80°	67.0	115.2	100.5	88.0	81.7
82.5°	44.0	64.9	52.4	41.9	35.6
85°	23.0	25.1	14.7	12.6	10.5
87.5°	8.4	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)