

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: P307629

Luminaire Tested: **14FCZ2-29-UNV-L82765-CP125-W2A-U-3000K**

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: P307629
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: 14FCZ2-29-UNV-L82765-CP125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 2585.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

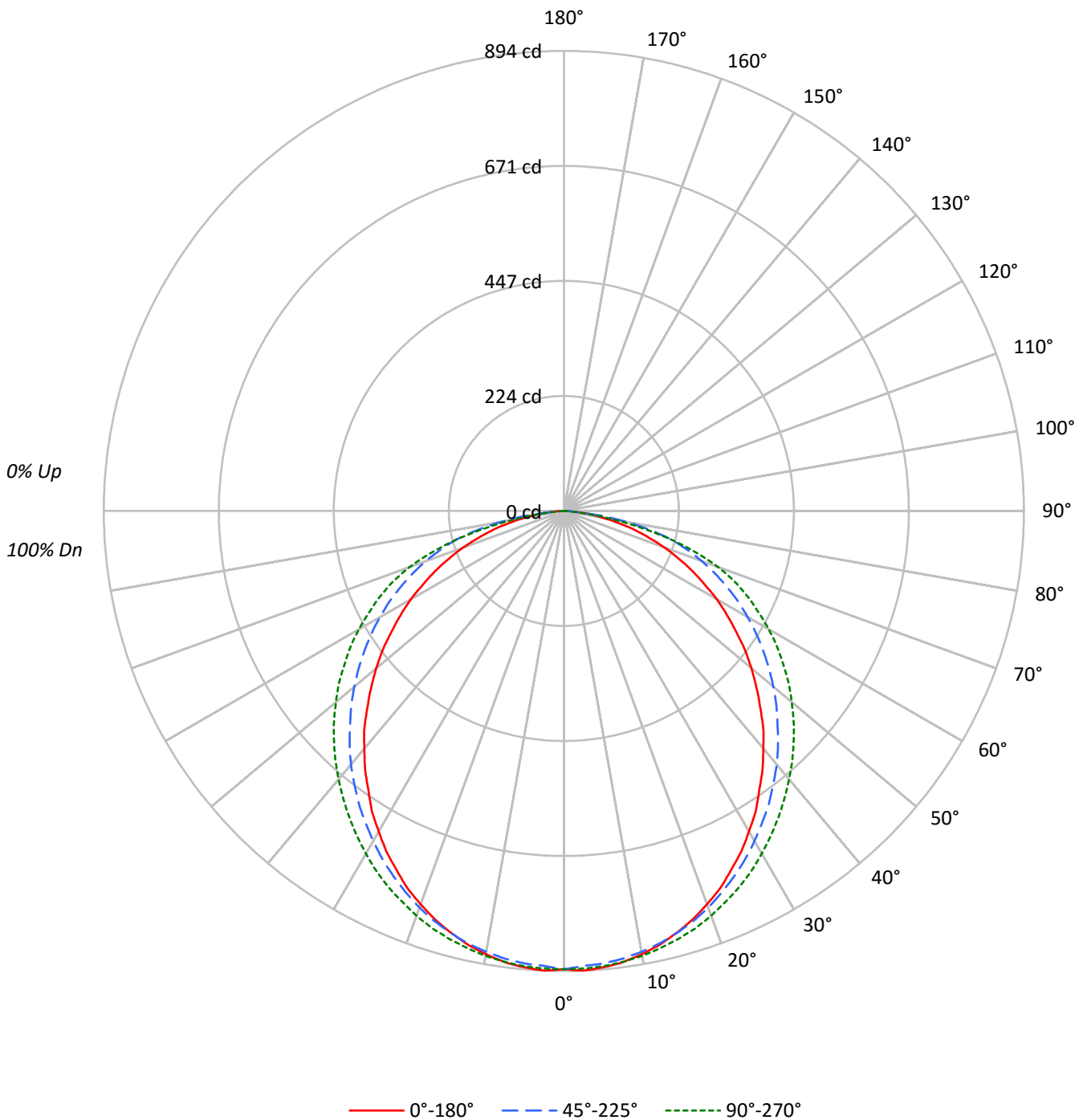
Input Watts (W): 23.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2396	2396	2396
5°	2404	2384	2398
10°	2389	2377	2399
15°	2364	2365	2398
20°	2329	2349	2397
25°	2285	2326	2394
30°	2235	2302	2389
35°	2176	2282	2388
40°	2118	2260	2391
45°	2053	2235	2404
50°	1993	2225	2420
55°	1917	2217	2442
60°	1849	2221	2476
65°	1754	2228	2514
70°	1646	2245	2512
75°	1492	2266	2272
80°	1224	1956	1616
85°	908	926	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.3
10°-20°	240.7	9.3
20°-30°	362.6	14.0
30°-40°	435.2	16.8
40°-50°	453.5	17.5
50°-60°	419.9	16.2
60°-70°	339.2	13.1
70°-80°	206.8	8.0
80°-90°	42.7	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°	687.6	26.6
0°-40°	1122.8	43.4
0°-60°	1996.2	77.2
0°-90°	2585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	890	888	882	889	888	84
15°	848	849	849	861	861	239
25°	770	774	783	803	806	355
35°	662	673	695	720	727	415
45°	540	556	587	620	632	417
55°	409	430	473	510	520	366
65°	276	303	350	385	395	272
75°	144	175	218	221	218	151
85°	29	44	30	17	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.5	890.5	890.5	890.5	890.5
2.5°	894.0	891.1	884.8	891.1	890.0
5°	890.0	887.7	882.5	888.8	887.7
7.5°	884.2	881.9	877.3	884.8	883.6
10°	874.4	873.2	869.8	878.4	877.9
12.5°	862.9	862.3	860.6	870.4	869.8
15°	848.5	849.0	849.0	860.6	860.6
17.5°	832.3	833.5	835.8	848.5	850.2
20°	813.3	815.6	820.2	834.6	836.9
22.5°	793.7	795.4	802.4	819.6	821.9
25°	769.5	774.1	783.3	802.9	806.4
27.5°	746.4	750.5	763.2	783.3	789.1
30°	719.3	725.7	740.7	762.6	768.9
32.5°	693.4	700.3	717.6	743.0	748.7
35°	662.3	672.7	694.6	719.9	726.8
37.5°	634.0	643.8	668.6	696.3	704.4
40°	602.9	615.0	643.3	672.7	680.7
42.5°	574.1	585.6	616.2	646.1	657.1
45°	539.5	555.7	587.4	620.2	631.7
47.5°	507.8	523.9	560.3	595.4	605.8
50°	476.1	493.4	531.4	567.8	578.1
52.5°	443.3	461.7	502.6	538.9	551.0
55°	408.7	430.0	472.6	509.5	520.5
57.5°	375.8	397.7	443.3	480.7	491.7
60°	343.5	366.0	412.7	448.4	460.0
62.5°	307.8	334.3	382.7	417.9	426.5
65°	275.5	302.6	349.9	385.0	394.8
67.5°	241.5	270.9	318.2	350.5	359.7
70°	209.2	239.8	285.3	315.3	319.3
72.5°	174.6	205.8	251.9	270.9	270.9
75°	143.5	175.2	217.9	221.3	218.5
77.5°	109.5	144.7	172.3	165.4	158.5
80°	79.0	113.6	126.2	113.6	104.3
82.5°	53.0	82.4	76.1	60.5	53.6
85°	29.4	43.8	30.0	16.7	12.1
87.5°	11.0	9.8	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)