

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: P307131

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-5700K**

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: P307131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 5700K 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: 2654.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

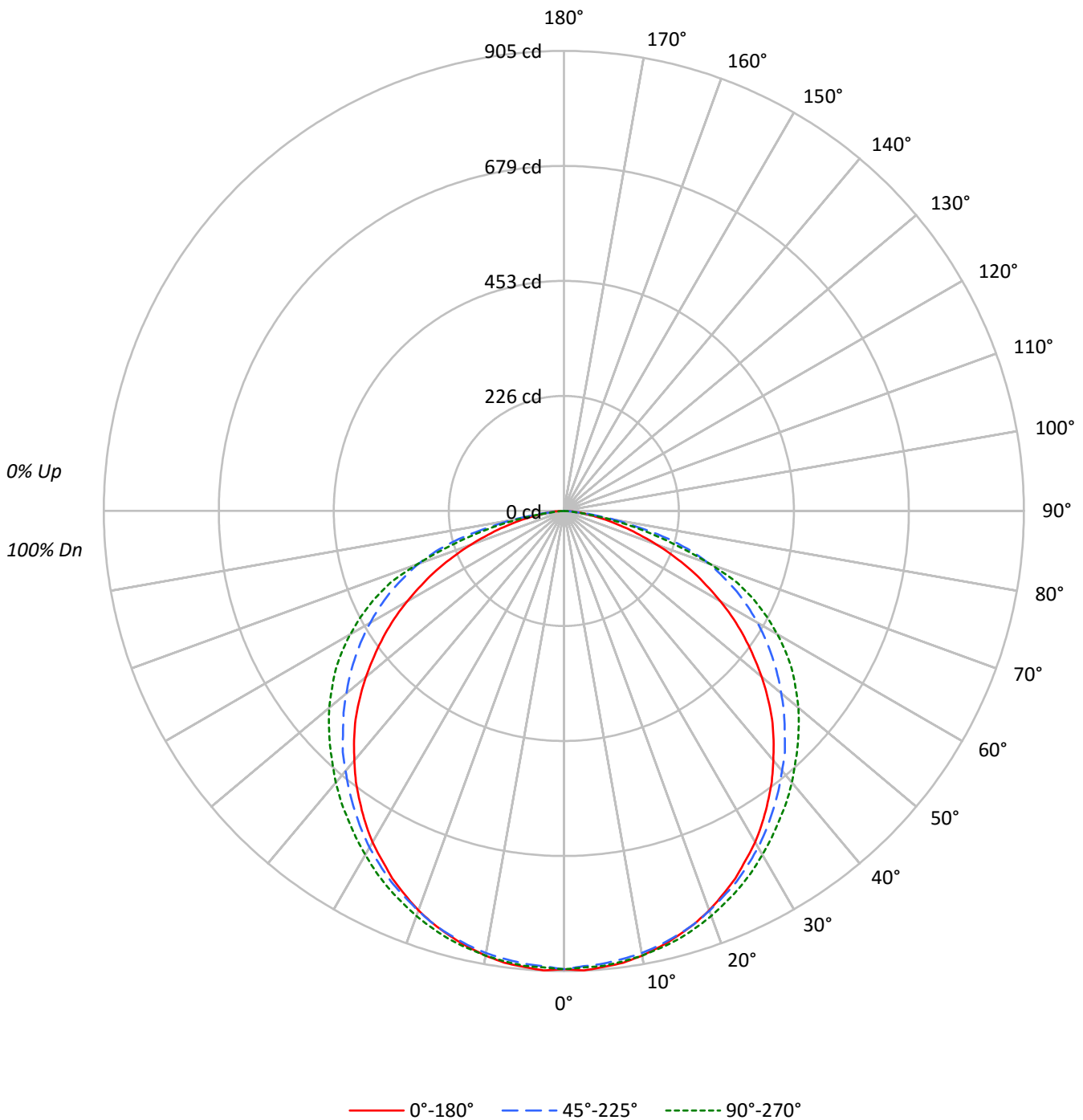
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2425	2425	2425
5°	2432	2414	2426
10°	2426	2413	2426
15°	2411	2406	2430
20°	2395	2397	2428
25°	2369	2389	2428
30°	2339	2375	2427
35°	2298	2358	2432
40°	2251	2345	2451
45°	2204	2337	2477
50°	2128	2337	2522
55°	2036	2349	2576
60°	1913	2367	2610
65°	1764	2391	2625
70°	1537	2397	2416
75°	1266	2230	1953
80°	996	1604	1306
85°	772	618	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.2
10°-20°	244.8	9.2
20°-30°	371.8	14.0
30°-40°	450.5	17.0
40°-50°	474.7	17.9
50°-60°	443.2	16.7
60°-70°	354.2	13.3
70°-80°	194.9	7.3
80°-90°	34.4	1.3
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°	702.0	26.5
0°-40°	1152.5	43.4
0°-60°	2070.5	78.0
0°-90°	2654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	900	898	894	900	898	86
15°	865	865	864	872	872	244
25°	798	800	804	816	818	367
35°	699	706	718	736	740	438
45°	579	590	614	642	651	446
55°	434	456	501	536	549	387
65°	277	312	376	406	412	273
75°	122	174	214	193	188	131
85°	25	32	20	12	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.3	901.3	901.3	901.3	901.3
2.5°	904.7	902.1	896.3	901.3	898.8
5°	900.5	898.0	893.8	899.6	898.0
7.5°	896.3	893.0	888.8	895.5	893.8
10°	888.0	885.5	883.0	888.8	888.0
12.5°	877.9	877.1	874.6	881.3	880.4
15°	865.4	865.4	863.8	872.1	872.1
17.5°	852.1	851.2	852.1	861.3	860.4
20°	836.2	836.2	837.1	847.9	847.9
22.5°	817.0	817.9	820.4	833.7	832.9
25°	797.8	799.5	804.5	816.2	817.9
27.5°	774.5	778.6	784.5	798.7	800.3
30°	752.8	755.3	764.4	777.8	781.1
32.5°	726.9	731.9	741.9	756.9	761.1
35°	699.4	706.0	717.7	736.1	740.2
37.5°	671.8	677.7	693.5	712.7	720.2
40°	640.9	650.9	667.6	689.3	697.7
42.5°	610.9	620.9	643.4	666.0	673.5
45°	579.2	590.0	614.2	641.8	650.9
47.5°	544.1	556.6	587.5	616.7	626.7
50°	508.2	524.1	558.3	590.9	602.5
52.5°	470.7	490.7	529.9	564.2	575.0
55°	434.0	455.7	500.7	535.8	549.1
57.5°	396.4	419.8	470.7	510.7	518.3
60°	355.5	383.9	439.8	474.9	484.9
62.5°	315.5	348.0	408.1	441.5	449.8
65°	277.1	312.1	375.5	406.4	412.3
67.5°	235.3	277.1	339.7	368.0	369.7
70°	195.3	243.7	304.6	318.0	307.1
72.5°	156.1	207.8	263.7	252.9	243.7
75°	121.8	174.4	214.5	192.8	187.8
77.5°	90.1	142.7	153.6	141.9	132.7
80°	64.3	112.7	103.5	88.5	84.3
82.5°	44.2	70.9	56.7	44.2	38.4
85°	25.0	31.7	20.0	12.5	10.0
87.5°	10.8	7.5	4.2	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)