

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: P307140

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP125-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: P307140
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-CP125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB 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: 2603.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

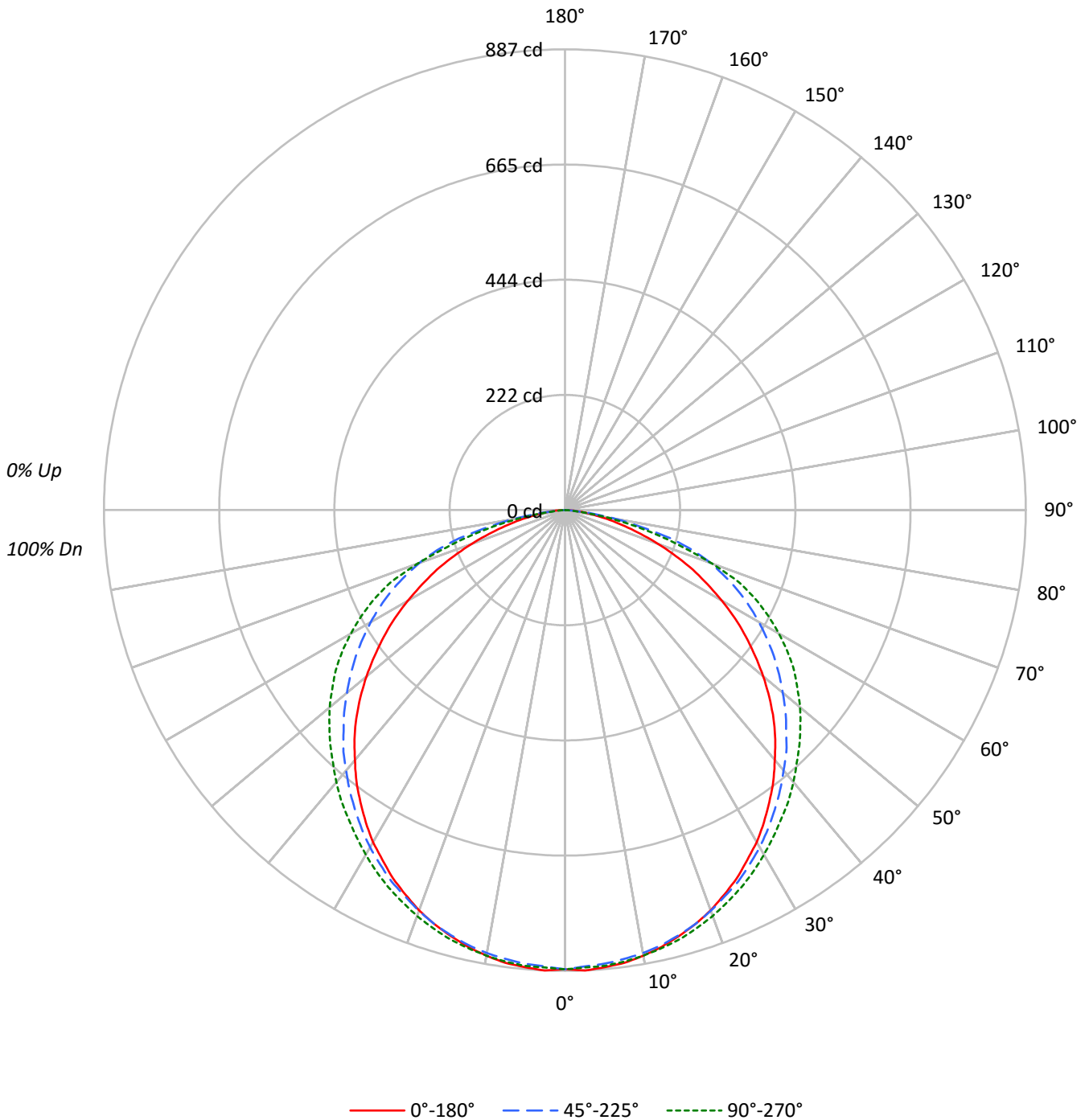
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2379	2379	2379
5°	2386	2368	2379
10°	2380	2366	2380
15°	2365	2360	2383
20°	2349	2351	2381
25°	2323	2343	2382
30°	2294	2330	2380
35°	2253	2312	2385
40°	2208	2300	2404
45°	2162	2293	2430
50°	2087	2292	2474
55°	1997	2304	2527
60°	1877	2322	2560
65°	1730	2345	2574
70°	1507	2351	2370
75°	1242	2188	1915
80°	976	1573	1282
85°	760	605	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.2
10°-20°	240.1	9.2
20°-30°	364.7	14.0
30°-40°	441.9	17.0
40°-50°	465.6	17.9
50°-60°	434.7	16.7
60°-70°	347.4	13.3
70°-80°	191.2	7.3
80°-90°	33.8	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°	688.5	26.5
0°-40°	1130.4	43.4
0°-60°	2030.7	78.0
0°-90°	2603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	883	881	877	882	881	84
15°	849	849	847	855	855	240
25°	782	784	789	800	802	360
35°	686	692	704	722	726	429
45°	568	579	602	629	638	437
55°	426	447	491	526	539	380
65°	272	306	368	399	404	268
75°	120	171	210	189	184	129
85°	25	31	20	12	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	884.0
2.5°	887.3	884.8	879.1	884.0	881.5
5°	883.2	880.7	876.6	882.4	880.7
7.5°	879.1	875.8	871.7	878.3	876.6
10°	870.9	868.4	866.0	871.7	870.9
12.5°	861.1	860.3	857.8	864.3	863.5
15°	848.8	848.8	847.2	855.3	855.3
17.5°	835.7	834.9	835.7	844.7	843.9
20°	820.1	820.1	821.0	831.6	831.6
22.5°	801.3	802.1	804.6	817.7	816.9
25°	782.5	784.1	789.0	800.5	802.1
27.5°	759.6	763.7	769.4	783.3	785.0
30°	738.3	740.8	749.8	762.9	766.1
32.5°	712.9	717.8	727.7	742.4	746.5
35°	685.9	692.5	703.9	721.9	726.0
37.5°	658.9	664.6	680.2	699.0	706.4
40°	628.6	638.4	654.8	676.1	684.3
42.5°	599.2	609.0	631.1	653.2	660.5
45°	568.0	578.7	602.4	629.4	638.4
47.5°	533.7	545.9	576.2	604.9	614.7
50°	498.5	514.0	547.6	579.5	591.0
52.5°	461.6	481.3	519.8	553.3	564.0
55°	425.6	446.9	491.1	525.5	538.6
57.5°	388.8	411.7	461.6	500.9	508.3
60°	348.7	376.5	431.4	465.7	475.6
62.5°	309.4	341.3	400.3	433.0	441.2
65°	271.7	306.1	368.3	398.6	404.3
67.5°	230.8	271.7	333.1	361.0	362.6
70°	191.5	239.0	298.8	311.9	301.2
72.5°	153.1	203.8	258.6	248.0	239.0
75°	119.5	171.1	210.4	189.1	184.2
77.5°	88.4	140.0	150.6	139.1	130.1
80°	63.0	110.5	101.5	86.8	82.7
82.5°	43.4	69.6	55.7	43.4	37.7
85°	24.6	31.1	19.6	12.3	9.8
87.5°	10.6	7.4	4.1	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)