

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: P307134

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-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: P307134
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-3000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. 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: 2357.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

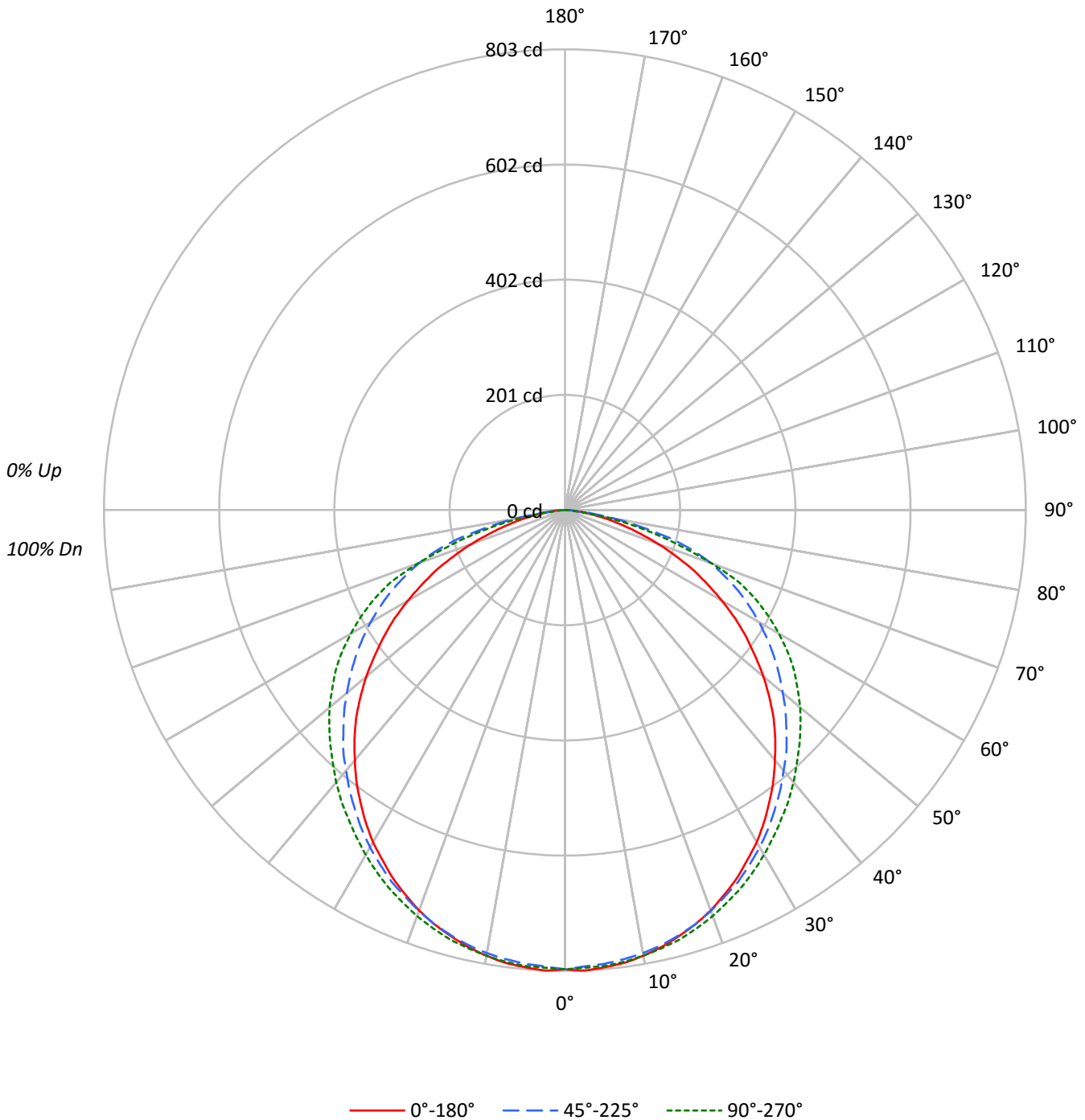
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2154	2154	2154
5°	2160	2144	2154
10°	2155	2143	2155
15°	2141	2137	2158
20°	2127	2129	2156
25°	2104	2121	2157
30°	2077	2110	2156
35°	2040	2094	2160
40°	1999	2083	2177
45°	1958	2076	2200
50°	1890	2076	2240
55°	1808	2086	2288
60°	1699	2102	2317
65°	1567	2124	2331
70°	1364	2128	2146
75°	1125	1981	1734
80°	885	1424	1161
85°	685	550	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	217.4	9.2
20°-30°	330.2	14.0
30°-40°	400.1	17.0
40°-50°	421.6	17.9
50°-60°	393.6	16.7
60°-70°	314.6	13.3
70°-80°	173.1	7.3
80°-90°	30.6	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°	623.4	26.5
0°-40°	1023.6	43.4
0°-60°	1838.8	78.0
0°-90°	2357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	800	798	794	799	798	76
15°	769	769	767	774	774	217
25°	708	710	714	725	726	326
35°	621	627	637	654	657	389
45°	514	524	546	570	578	396
55°	385	405	445	476	488	344
65°	246	277	334	361	366	242
75°	108	155	190	171	167	116
85°	22	28	18	11	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.4	800.4	800.4	800.4	800.4
2.5°	803.4	801.2	796.0	800.4	798.2
5°	799.7	797.5	793.8	799.0	797.5
7.5°	796.0	793.0	789.3	795.3	793.8
10°	788.6	786.4	784.1	789.3	788.6
12.5°	779.7	779.0	776.7	782.7	781.9
15°	768.6	768.6	767.1	774.5	774.5
17.5°	756.7	756.0	756.7	764.9	764.1
20°	742.6	742.6	743.4	753.0	753.0
22.5°	725.6	726.3	728.6	740.4	739.7
25°	708.5	710.0	714.5	724.9	726.3
27.5°	687.8	691.5	696.7	709.3	710.8
30°	668.5	670.7	678.9	690.8	693.7
32.5°	645.5	650.0	658.9	672.2	675.9
35°	621.1	627.0	637.4	653.7	657.4
37.5°	596.6	601.8	615.9	632.9	639.6
40°	569.2	578.1	592.9	612.2	619.6
42.5°	542.5	551.4	571.4	591.4	598.1
45°	514.4	524.0	545.5	569.9	578.1
47.5°	483.2	494.4	521.8	547.7	556.6
50°	451.4	465.4	495.8	524.7	535.1
52.5°	418.0	435.8	470.6	501.0	510.7
55°	385.4	404.7	444.7	475.8	487.7
57.5°	352.0	372.8	418.0	453.6	460.3
60°	315.7	340.9	390.6	421.7	430.6
62.5°	280.2	309.1	362.4	392.1	399.5
65°	246.1	277.2	333.5	360.9	366.1
67.5°	209.0	246.1	301.7	326.9	328.3
70°	173.4	216.4	270.5	282.4	272.7
72.5°	138.6	184.5	234.2	224.6	216.4
75°	108.2	154.9	190.5	171.2	166.8
77.5°	80.0	126.7	136.4	126.0	117.8
80°	57.1	100.1	91.9	78.6	74.9
82.5°	39.3	63.0	50.4	39.3	34.1
85°	22.2	28.2	17.8	11.1	8.9
87.5°	9.6	6.7	3.7	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)