

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: P307679

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP125-W2A-U-5500K**

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: P307679
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: 14FCZ2-35-UNV-L82765-CP125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5500K 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: 3423.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

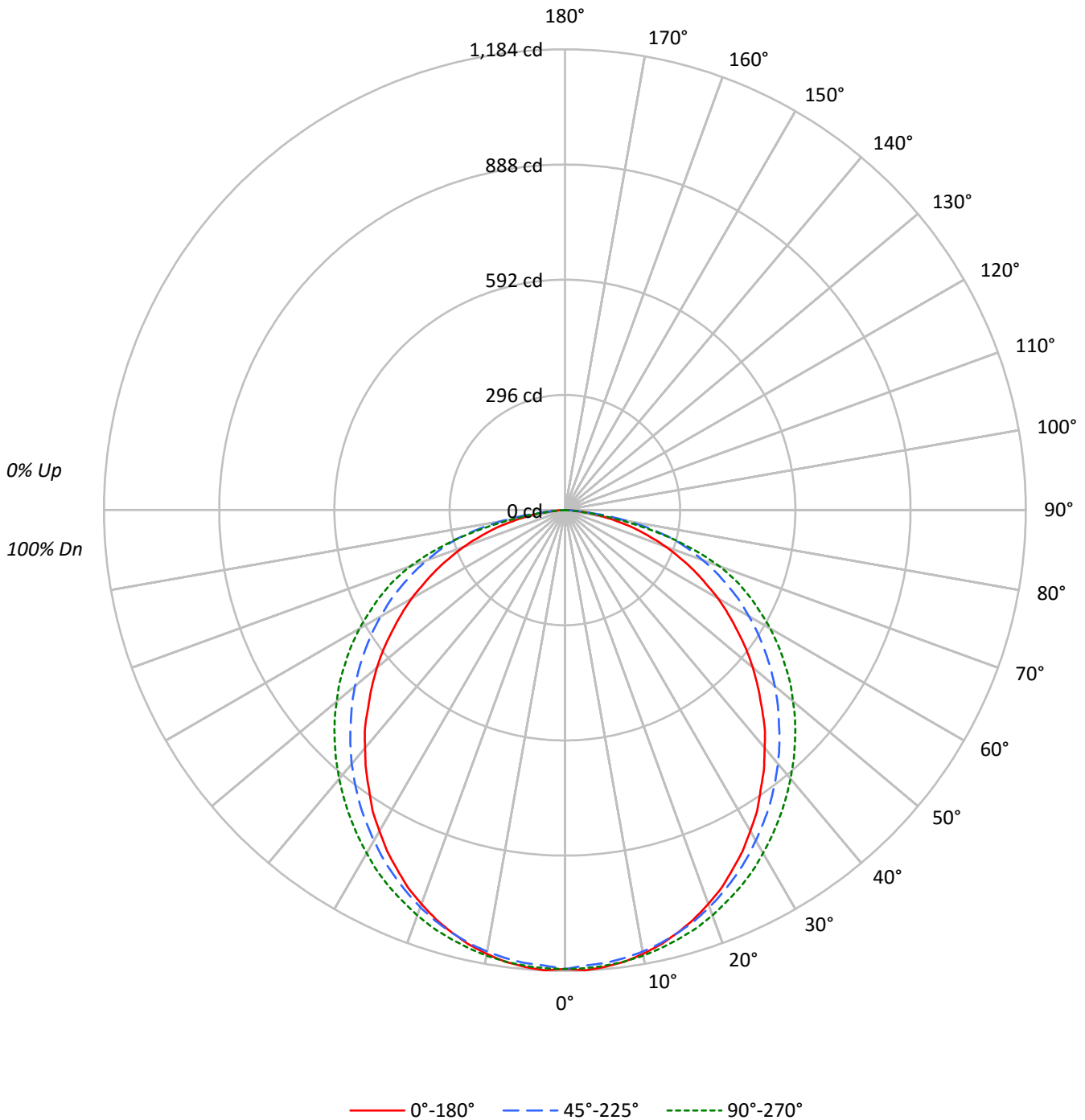
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3173	3173	3173
5°	3183	3156	3175
10°	3164	3147	3176
15°	3130	3132	3175
20°	3084	3110	3174
25°	3026	3080	3170
30°	2960	3048	3164
35°	2881	3021	3162
40°	2805	2992	3166
45°	2719	2960	3183
50°	2640	2946	3205
55°	2539	2936	3233
60°	2448	2941	3278
65°	2323	2950	3329
70°	2180	2972	3327
75°	1976	3000	3008
80°	1621	2591	2140
85°	1201	1226	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.3
10°-20°	318.8	9.3
20°-30°	480.2	14.0
30°-40°	576.2	16.8
40°-50°	600.6	17.5
50°-60°	556.0	16.2
60°-70°	449.2	13.1
70°-80°	273.9	8.0
80°-90°	56.5	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°	910.5	26.6
0°-40°	1486.7	43.4
0°-60°	2643.3	77.2
0°-90°	3423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1178	1175	1168	1177	1175	112
15°	1124	1124	1124	1140	1140	317
25°	1019	1025	1037	1063	1068	470
35°	877	891	920	953	962	549
45°	714	736	778	821	836	552
55°	541	569	626	675	689	485
65°	365	401	463	510	523	361
75°	190	232	288	293	289	200
85°	39	58	40	22	16	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.2	1179.2	1179.2	1179.2	1179.2
2.5°	1183.8	1180.0	1171.6	1180.0	1178.5
5°	1178.5	1175.4	1168.5	1176.9	1175.4
7.5°	1170.8	1167.8	1161.7	1171.6	1170.1
10°	1157.9	1156.3	1151.8	1163.2	1162.4
12.5°	1142.6	1141.8	1139.5	1152.5	1151.8
15°	1123.5	1124.3	1124.3	1139.5	1139.5
17.5°	1102.1	1103.7	1106.7	1123.5	1125.8
20°	1077.0	1080.0	1086.1	1105.2	1108.3
22.5°	1051.0	1053.3	1062.5	1085.4	1088.4
25°	1019.0	1025.1	1037.3	1063.2	1067.8
27.5°	988.4	993.8	1010.6	1037.3	1044.9
30°	952.5	960.9	980.8	1009.8	1018.2
32.5°	918.2	927.4	950.3	983.8	991.5
35°	877.0	890.7	919.7	953.3	962.5
37.5°	839.6	852.6	885.4	922.0	932.7
40°	798.4	814.4	851.8	890.7	901.4
42.5°	760.2	775.5	815.9	855.6	870.1
45°	714.4	735.8	777.8	821.3	836.5
47.5°	672.4	693.8	741.9	788.4	802.2
50°	630.5	653.3	703.7	751.8	765.5
52.5°	586.9	611.4	665.6	713.6	729.7
55°	541.2	569.4	625.9	674.7	689.2
57.5°	497.6	526.6	586.9	636.6	651.1
60°	454.9	484.7	546.5	593.8	609.1
62.5°	407.6	442.7	506.8	553.4	564.8
65°	364.8	400.7	463.3	509.9	522.8
67.5°	319.8	358.7	421.3	464.1	476.3
70°	277.1	317.5	377.8	417.5	422.8
72.5°	231.3	272.5	333.5	358.7	358.7
75°	190.1	232.0	288.5	293.1	289.3
77.5°	145.0	191.6	228.2	219.1	209.9
80°	104.6	150.4	167.2	150.4	138.1
82.5°	70.2	109.1	100.8	80.1	71.0
85°	38.9	58.0	39.7	22.1	16.0
87.5°	14.5	13.0	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)