

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: P307675

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP125-W2A-U-3500K**

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: P307675
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-3500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3500K 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: 3215.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

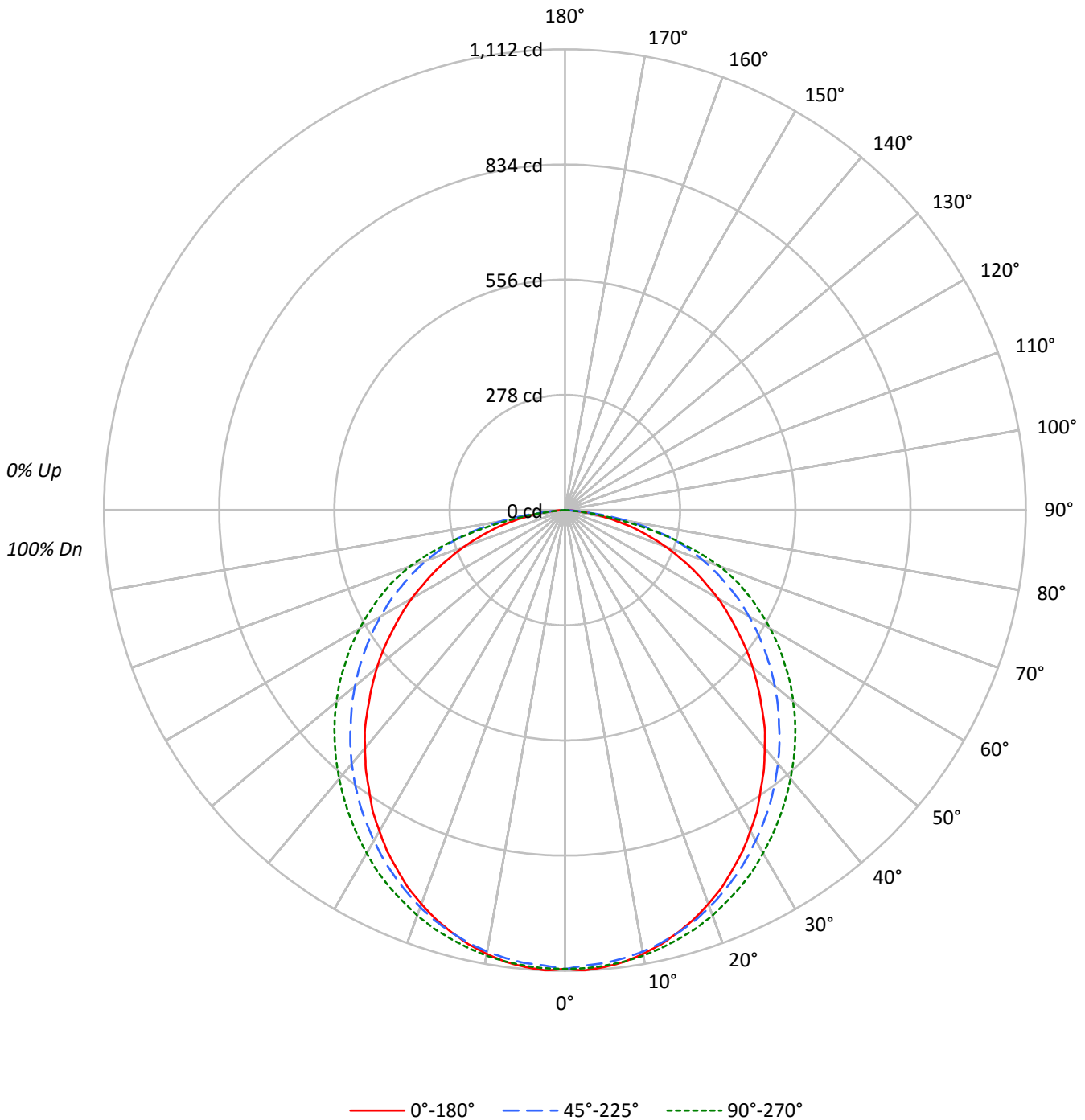
Input Watts (W): 29.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2981	2981	2981
5°	2990	2965	2982
10°	2972	2956	2983
15°	2940	2942	2982
20°	2897	2921	2981
25°	2841	2893	2978
30°	2780	2862	2971
35°	2706	2838	2970
40°	2634	2810	2974
45°	2554	2780	2990
50°	2479	2767	3010
55°	2385	2758	3037
60°	2300	2763	3079
65°	2182	2770	3127
70°	2047	2792	3125
75°	1856	2818	2825
80°	1522	2433	2011
85°	1130	1152	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	299.4	9.3
20°-30°	451.0	14.0
30°-40°	541.2	16.8
40°-50°	564.1	17.5
50°-60°	522.2	16.2
60°-70°	421.9	13.1
70°-80°	257.2	8.0
80°-90°	53.1	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°	855.2	26.6
0°-40°	1396.4	43.4
0°-60°	2482.7	77.2
0°-90°	3215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1107	1104	1098	1105	1104	105
15°	1055	1056	1056	1070	1070	297
25°	957	963	974	999	1003	441
35°	824	837	864	895	904	516
45°	671	691	730	771	786	519
55°	508	535	588	634	647	455
65°	343	376	435	479	491	339
75°	178	218	271	275	272	187
85°	37	54	37	21	15	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.6	1107.6	1107.6	1107.6	1107.6
2.5°	1111.9	1108.3	1100.4	1108.3	1106.9
5°	1106.9	1104.0	1097.5	1105.4	1104.0
7.5°	1099.7	1096.8	1091.1	1100.4	1099.0
10°	1087.5	1086.1	1081.8	1092.5	1091.8
12.5°	1073.2	1072.5	1070.3	1082.5	1081.8
15°	1055.2	1056.0	1056.0	1070.3	1070.3
17.5°	1035.2	1036.6	1039.5	1055.2	1057.4
20°	1011.5	1014.4	1020.1	1038.0	1040.9
22.5°	987.1	989.3	997.9	1019.4	1022.3
25°	957.0	962.8	974.2	998.6	1002.9
27.5°	928.4	933.4	949.1	974.2	981.4
30°	894.7	902.6	921.2	948.4	956.3
32.5°	862.4	871.0	892.5	924.1	931.2
35°	823.7	836.6	863.8	895.4	904.0
37.5°	788.6	800.8	831.6	866.0	876.0
40°	749.9	764.9	800.0	836.6	846.6
42.5°	714.0	728.3	766.3	803.6	817.2
45°	671.0	691.1	730.5	771.4	785.7
47.5°	631.6	651.6	696.8	740.5	753.4
50°	592.1	613.6	661.0	706.1	719.0
52.5°	551.3	574.2	625.1	670.3	685.3
55°	508.3	534.8	587.8	633.7	647.3
57.5°	467.4	494.6	551.3	597.9	611.5
60°	427.3	455.2	513.3	557.7	572.1
62.5°	382.8	415.8	476.0	519.7	530.5
65°	342.7	376.4	435.1	478.9	491.1
67.5°	300.4	336.9	395.7	435.9	447.3
70°	260.2	298.2	354.9	392.1	397.2
72.5°	217.2	255.9	313.3	336.9	336.9
75°	178.5	217.9	271.0	275.3	271.7
77.5°	136.2	179.9	214.3	205.7	197.1
80°	98.2	141.2	157.0	141.2	129.8
82.5°	66.0	102.5	94.6	75.3	66.7
85°	36.6	54.5	37.3	20.8	15.1
87.5°	13.6	12.2	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)