

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: P307671

Luminaire Tested: **14FCZ2-35-UNV-L82765-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: P307671
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-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED 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

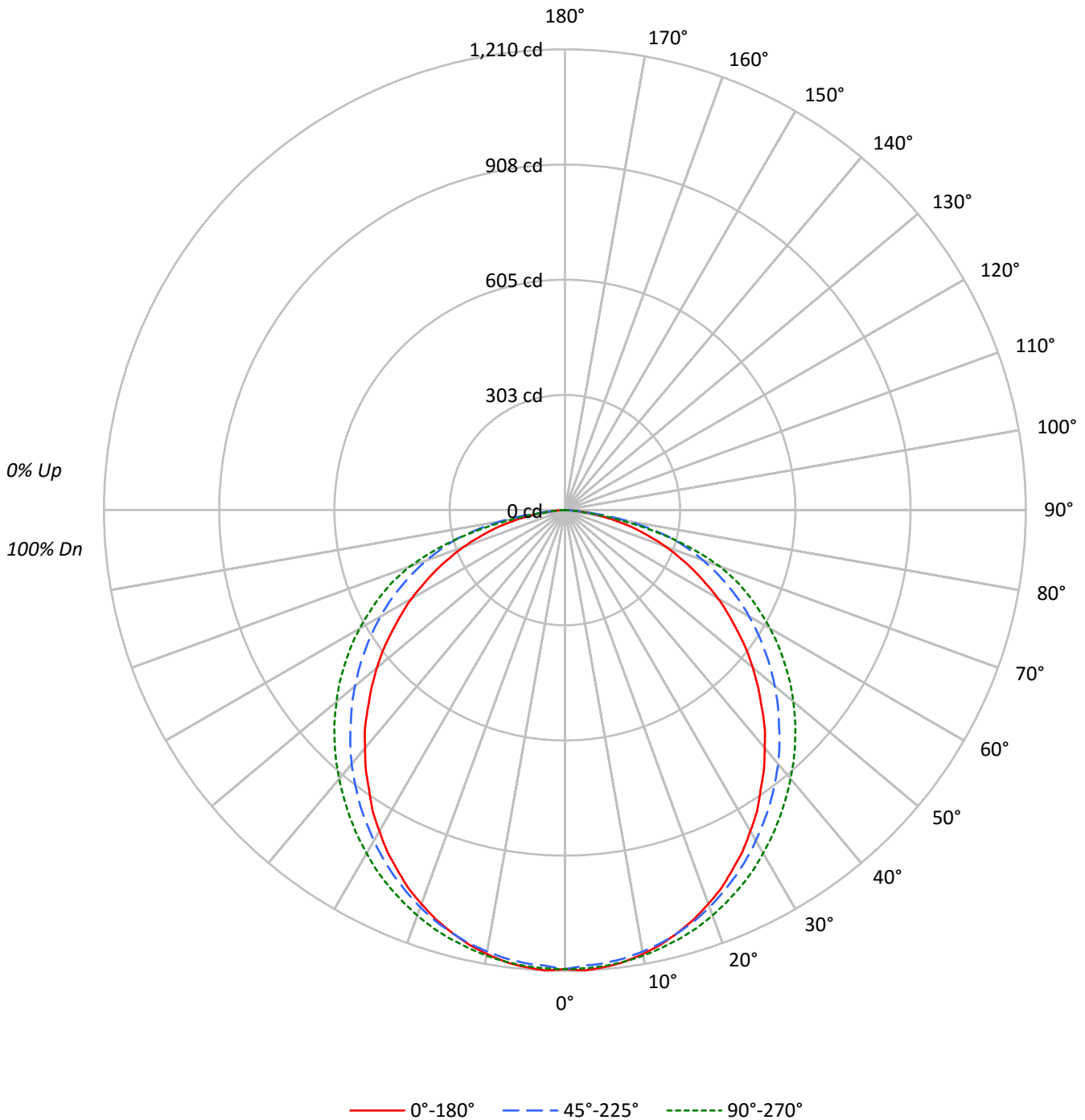
Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3244	3244	3244
5°	3254	3227	3246
10°	3234	3217	3247
15°	3200	3202	3245
20°	3153	3179	3244
25°	3093	3148	3241
30°	3026	3115	3234
35°	2945	3088	3232
40°	2867	3059	3237
45°	2779	3025	3254
50°	2698	3011	3276
55°	2595	3002	3305
60°	2503	3006	3351
65°	2374	3016	3403
70°	2228	3039	3401
75°	2020	3066	3074
80°	1657	2648	2188
85°	1229	1254	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.3
10°-20°	325.8	9.3
20°-30°	490.8	14.0
30°-40°	589.0	16.8
40°-50°	613.9	17.5
50°-60°	568.3	16.2
60°-70°	459.2	13.1
70°-80°	280.0	8.0
80°-90°	57.8	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°	930.7	26.6
0°-40°	1519.7	43.4
0°-60°	2702.0	77.2
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1205	1202	1194	1203	1202	114
15°	1148	1149	1149	1165	1165	324
25°	1042	1048	1060	1087	1092	480
35°	896	910	940	974	984	562
45°	730	752	795	840	855	564
55°	553	582	640	690	704	496
65°	373	410	474	521	534	369
75°	194	237	295	300	296	204
85°	40	59	41	23	16	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1210.1	1206.2	1197.6	1206.2	1204.6
5°	1204.6	1201.5	1194.5	1203.1	1201.5
7.5°	1196.8	1193.7	1187.5	1197.6	1196.1
10°	1183.6	1182.0	1177.3	1189.0	1188.3
12.5°	1168.0	1167.2	1164.8	1178.1	1177.3
15°	1148.5	1149.2	1149.2	1164.8	1164.8
17.5°	1126.6	1128.2	1131.3	1148.5	1150.8
20°	1100.9	1104.0	1110.2	1129.7	1132.9
22.5°	1074.3	1076.7	1086.0	1109.5	1112.6
25°	1041.6	1047.8	1060.3	1086.8	1091.5
27.5°	1010.4	1015.8	1033.0	1060.3	1068.1
30°	973.7	982.3	1002.6	1032.2	1040.8
32.5°	938.6	947.9	971.4	1005.7	1013.5
35°	896.5	910.5	940.1	974.5	983.8
37.5°	858.2	871.5	905.0	942.5	953.4
40°	816.1	832.5	870.7	910.5	921.4
42.5°	777.1	792.7	834.0	874.6	889.4
45°	730.3	752.1	795.0	839.5	855.1
47.5°	687.4	709.2	758.4	806.0	820.0
50°	644.4	667.9	719.3	768.5	782.5
52.5°	600.0	624.9	680.3	729.5	745.9
55°	553.2	582.0	639.8	689.7	704.5
57.5°	508.7	538.3	600.0	650.7	665.5
60°	465.0	495.4	558.6	607.0	622.6
62.5°	416.6	452.5	518.1	565.6	577.4
65°	372.9	409.6	473.6	521.2	534.4
67.5°	326.9	366.7	430.7	474.4	486.8
70°	283.2	324.6	386.2	426.8	432.2
72.5°	236.4	278.5	340.9	366.7	366.7
75°	194.3	237.2	294.9	299.6	295.7
77.5°	148.2	195.8	233.3	223.9	214.6
80°	106.9	153.7	170.9	153.7	141.2
82.5°	71.8	111.6	103.0	81.9	72.6
85°	39.8	59.3	40.6	22.6	16.4
87.5°	14.8	13.3	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)