

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: P307678

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP125-W2A-U-5000K**

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: P307678
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-5000K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 3389.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

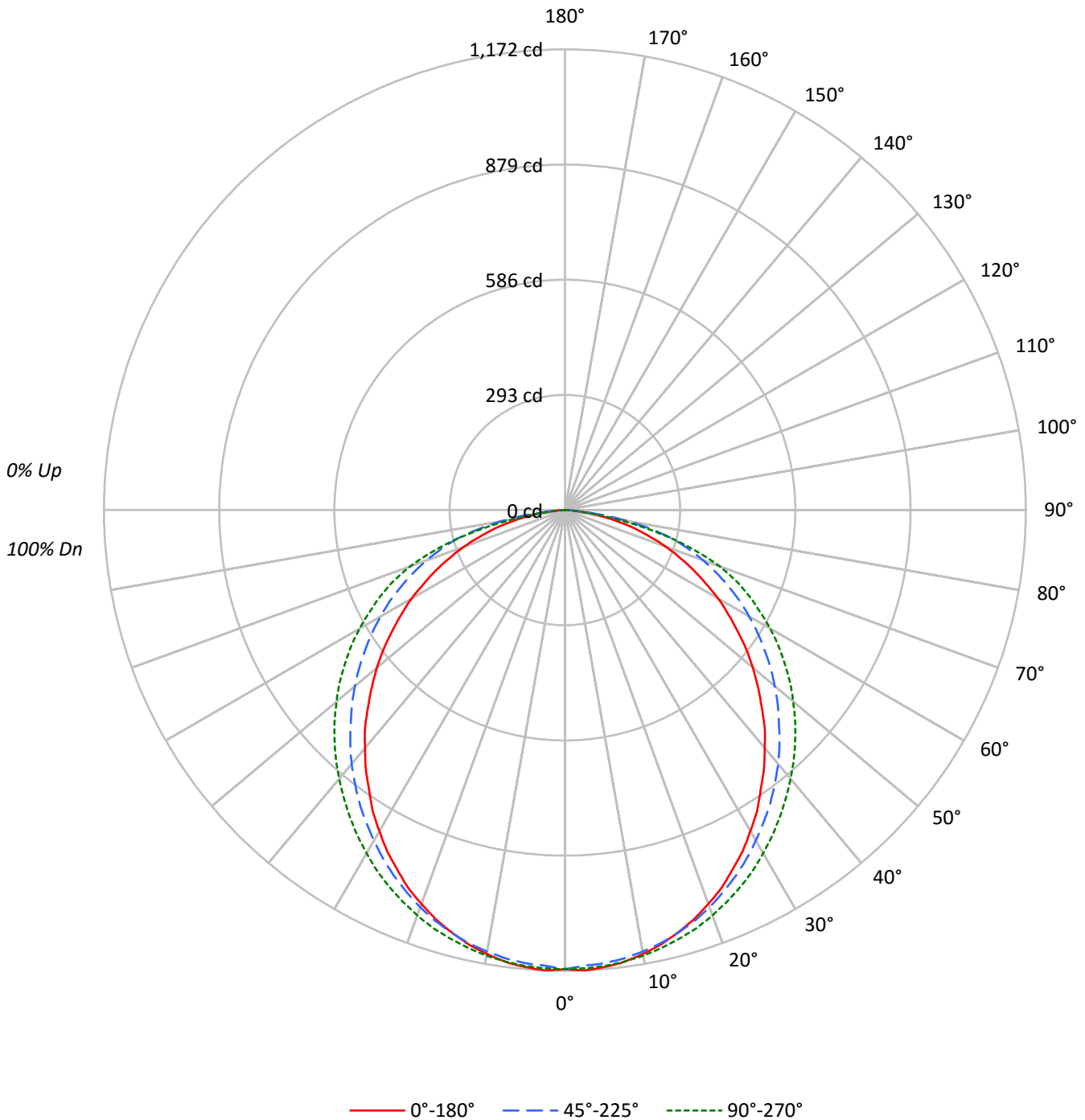
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3142	3142	3142
5°	3152	3125	3143
10°	3133	3116	3145
15°	3099	3101	3143
20°	3054	3079	3142
25°	2995	3049	3139
30°	2930	3017	3132
35°	2852	2991	3130
40°	2777	2962	3135
45°	2692	2930	3152
50°	2613	2917	3173
55°	2514	2907	3202
60°	2424	2912	3245
65°	2300	2921	3296
70°	2158	2943	3294
75°	1957	2969	2978
80°	1604	2565	2120
85°	1189	1213	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.3
10°-20°	315.6	9.3
20°-30°	475.4	14.0
30°-40°	570.5	16.8
40°-50°	594.6	17.5
50°-60°	550.5	16.2
60°-70°	444.8	13.1
70°-80°	271.2	8.0
80°-90°	56.0	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°	901.5	26.6
0°-40°	1472.0	43.4
0°-60°	2617.1	77.2
0°-90°	3389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1167	1164	1157	1165	1164	111
15°	1112	1113	1113	1128	1128	314
25°	1009	1015	1027	1053	1057	465
35°	868	882	911	944	953	544
45°	707	728	770	813	828	547
55°	536	564	620	668	682	480
65°	361	397	459	505	518	357
75°	188	230	286	290	286	198
85°	38	57	39	22	16	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1172.1	1168.3	1160.0	1168.3	1166.8
5°	1166.8	1163.7	1156.9	1165.3	1163.7
7.5°	1159.2	1156.2	1150.1	1160.0	1158.5
10°	1146.4	1144.9	1140.3	1151.7	1150.9
12.5°	1131.2	1130.5	1128.2	1141.1	1140.3
15°	1112.4	1113.1	1113.1	1128.2	1128.2
17.5°	1091.2	1092.7	1095.7	1112.4	1114.6
20°	1066.3	1069.3	1075.3	1094.2	1097.2
22.5°	1040.6	1042.8	1051.9	1074.6	1077.6
25°	1008.8	1014.9	1027.0	1052.7	1057.2
27.5°	978.6	983.9	1000.5	1027.0	1034.5
30°	943.1	951.4	971.0	999.8	1008.1
32.5°	909.1	918.1	940.8	974.1	981.6
35°	868.3	881.9	910.6	943.8	952.9
37.5°	831.2	844.1	876.6	912.9	923.4
40°	790.4	806.3	843.3	881.9	892.5
42.5°	752.7	767.8	807.8	847.1	861.5
45°	707.3	728.5	770.0	813.1	828.2
47.5°	665.8	686.9	734.5	780.6	794.2
50°	624.2	646.9	696.7	744.3	757.9
52.5°	581.1	605.3	659.0	706.6	722.4
55°	535.8	563.7	619.7	668.0	682.4
57.5°	492.7	521.4	581.1	630.2	644.6
60°	450.4	479.9	541.1	587.9	603.0
62.5°	403.5	438.3	501.8	547.9	559.2
65°	361.2	396.7	458.7	504.8	517.6
67.5°	316.6	355.2	417.1	459.5	471.5
70°	274.3	314.4	374.1	413.4	418.6
72.5°	229.0	269.8	330.2	355.2	355.2
75°	188.2	229.7	285.6	290.2	286.4
77.5°	143.6	189.7	225.9	216.9	207.8
80°	103.5	148.9	165.5	148.9	136.8
82.5°	69.5	108.1	99.7	79.3	70.3
85°	38.5	57.4	39.3	21.9	15.9
87.5°	14.4	12.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)