

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: P307935

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-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: P307935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 3202.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

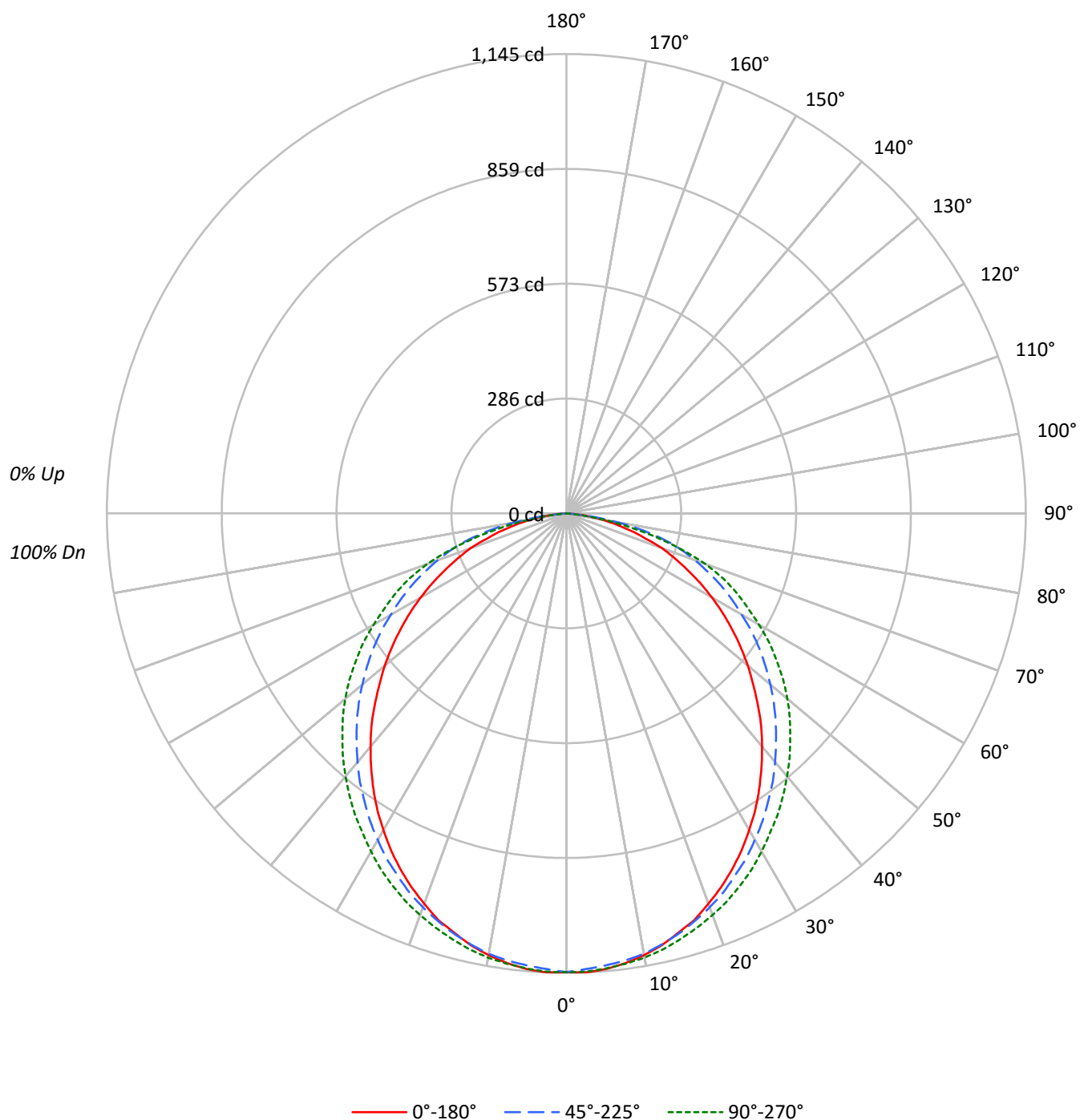
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3079	3054	3075
10°	3054	3045	3071
15°	3012	3021	3061
20°	2964	2991	3051
25°	2904	2956	3040
30°	2832	2921	3024
35°	2754	2879	3014
40°	2666	2844	3006
45°	2568	2809	3003
50°	2472	2778	3011
55°	2369	2756	3002
60°	2256	2717	2982
65°	2123	2709	2982
70°	1998	2685	2898
75°	1733	2624	2476
80°	1402	2115	1649
85°	932	735	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.4
10°-20°	307.1	9.6
20°-30°	460.7	14.4
30°-40°	549.6	17.2
40°-50°	568.2	17.7
50°-60°	518.8	16.2
60°-70°	408.2	12.7
70°-80°	237.6	7.4
80°-90°	43.8	1.4
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°	875.8	27.4
0°-40°	1425.4	44.5
0°-60°	2512.4	78.5
0°-90°	3202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1140	1137	1130	1140	1138	108
15°	1081	1083	1084	1099	1099	305
25°	978	983	995	1019	1024	450
35°	838	849	876	910	918	524
45°	675	697	738	780	789	521
55°	505	532	587	630	640	451
65°	333	368	426	459	468	331
75°	167	206	252	248	238	177
85°	30	43	24	19	16	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1144.6	1141.5	1136.7	1144.6	1143.1
5°	1139.9	1136.7	1130.4	1139.9	1138.3
7.5°	1130.4	1127.2	1124.0	1133.5	1131.9
10°	1117.7	1116.1	1114.5	1125.6	1124.0
12.5°	1101.8	1101.8	1100.2	1112.9	1112.9
15°	1081.1	1082.7	1084.3	1098.6	1098.6
17.5°	1062.1	1060.5	1065.3	1081.1	1082.7
20°	1035.1	1038.3	1044.6	1063.7	1065.3
22.5°	1008.1	1011.3	1022.4	1041.5	1046.2
25°	978.0	982.7	995.4	1019.2	1024.0
27.5°	946.2	952.6	970.0	995.4	1000.2
30°	911.3	920.8	939.9	968.4	973.2
32.5°	876.3	885.9	909.7	938.3	944.6
35°	838.2	849.4	876.3	909.7	917.6
37.5°	798.6	812.8	844.6	877.9	887.5
40°	758.9	774.7	809.7	844.6	855.7
42.5°	719.2	735.1	773.2	812.8	824.0
45°	674.7	696.9	738.2	779.5	789.0
47.5°	631.9	655.7	701.7	743.0	755.7
50°	590.6	614.4	663.6	706.5	719.2
52.5°	547.7	573.1	625.5	670.0	681.1
55°	504.9	531.8	587.4	630.3	639.8
57.5°	462.0	490.6	547.7	589.0	600.1
60°	419.1	449.3	504.9	546.1	554.1
62.5°	376.3	408.0	465.2	501.7	509.6
65°	333.4	368.3	425.5	458.8	468.3
67.5°	292.1	327.0	382.6	414.4	422.3
70°	254.0	285.8	341.3	365.1	368.3
72.5°	206.4	246.1	300.1	312.8	304.8
75°	166.7	206.4	252.4	247.7	238.1
77.5°	127.0	166.7	196.9	181.0	168.3
80°	90.5	130.2	136.5	112.7	106.4
82.5°	58.7	90.5	76.2	58.7	47.6
85°	30.2	42.9	23.8	19.1	15.9
87.5°	9.5	6.4	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)