

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: P307945

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-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: P307945
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-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 3249.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

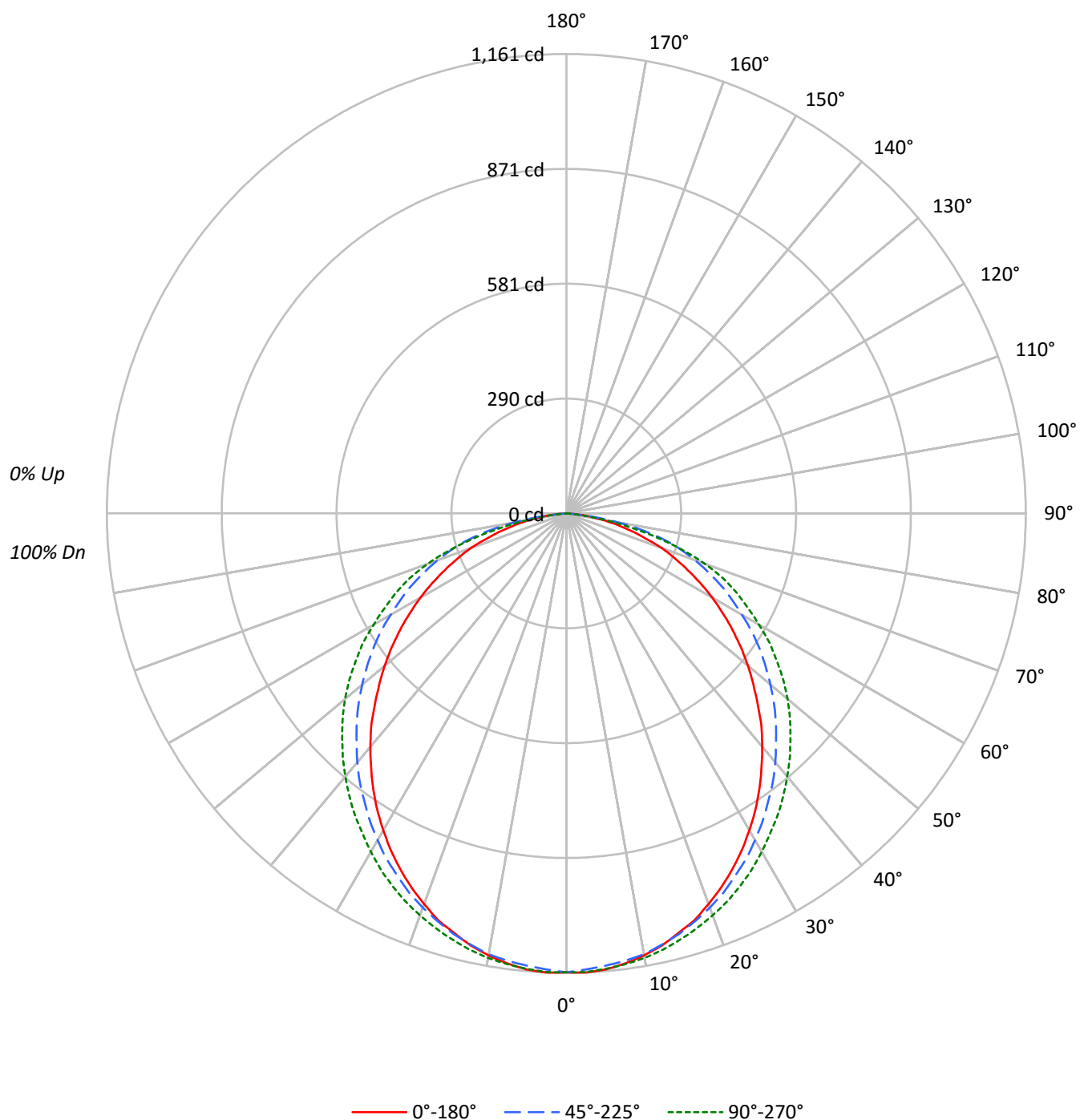
Input Watts (W): 29.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3121	3121	3121
5°	3124	3098	3120
10°	3099	3090	3116
15°	3056	3065	3105
20°	3008	3036	3095
25°	2946	2999	3085
30°	2873	2963	3068
35°	2794	2921	3059
40°	2705	2886	3050
45°	2605	2851	3047
50°	2509	2819	3055
55°	2403	2796	3046
60°	2289	2757	3026
65°	2154	2749	3026
70°	2028	2725	2940
75°	1758	2663	2512
80°	1423	2146	1672
85°	945	747	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.4
10°-20°	311.7	9.6
20°-30°	467.5	14.4
30°-40°	557.7	17.2
40°-50°	576.5	17.7
50°-60°	526.4	16.2
60°-70°	414.2	12.7
70°-80°	241.1	7.4
80°-90°	44.4	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°	888.7	27.4
0°-40°	1446.3	44.5
0°-60°	2549.2	78.5
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1157	1153	1147	1157	1155	110
15°	1097	1099	1100	1115	1115	310
25°	992	997	1010	1034	1039	457
35°	850	862	889	923	931	532
45°	685	707	749	791	801	529
55°	512	540	596	640	649	458
65°	338	374	432	466	475	336
75°	169	209	256	251	242	180
85°	31	44	24	19	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.8	1159.8	1159.8	1159.8	1159.8
2.5°	1161.4	1158.2	1153.4	1161.4	1159.8
5°	1156.6	1153.4	1147.0	1156.6	1155.0
7.5°	1147.0	1143.7	1140.5	1150.2	1148.6
10°	1134.1	1132.5	1130.8	1142.1	1140.5
12.5°	1118.0	1118.0	1116.3	1129.2	1129.2
15°	1097.0	1098.6	1100.2	1114.7	1114.7
17.5°	1077.7	1076.1	1080.9	1097.0	1098.6
20°	1050.3	1053.5	1060.0	1079.3	1080.9
22.5°	1022.9	1026.1	1037.4	1056.7	1061.6
25°	992.3	997.1	1010.0	1034.2	1039.0
27.5°	960.1	966.5	984.3	1010.0	1014.9
30°	924.6	934.3	953.6	982.6	987.5
32.5°	889.2	898.9	923.0	952.0	958.5
35°	850.5	861.8	889.2	923.0	931.1
37.5°	810.3	824.8	857.0	890.8	900.5
40°	770.0	786.1	821.6	857.0	868.3
42.5°	729.7	745.8	784.5	824.8	836.1
45°	684.6	707.2	749.1	790.9	800.6
47.5°	641.1	665.3	712.0	753.9	766.8
50°	599.3	623.4	673.4	716.8	729.7
52.5°	555.8	581.5	634.7	679.8	691.1
55°	512.3	539.6	596.0	639.5	649.2
57.5°	468.8	497.8	555.8	597.6	608.9
60°	425.3	455.9	512.3	554.1	562.2
62.5°	381.8	414.0	472.0	509.0	517.1
65°	338.3	373.7	431.7	465.5	475.2
67.5°	296.4	331.8	388.2	420.4	428.5
70°	257.7	290.0	346.3	370.5	373.7
72.5°	209.4	249.7	304.5	317.3	309.3
75°	169.1	209.4	256.1	251.3	241.6
77.5°	128.9	169.1	199.8	183.6	170.8
80°	91.8	132.1	138.5	114.4	107.9
82.5°	59.6	91.8	77.3	59.6	48.3
85°	30.6	43.5	24.2	19.3	16.1
87.5°	9.7	6.4	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)