

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: P307939

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-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: P307939
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-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 3493.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

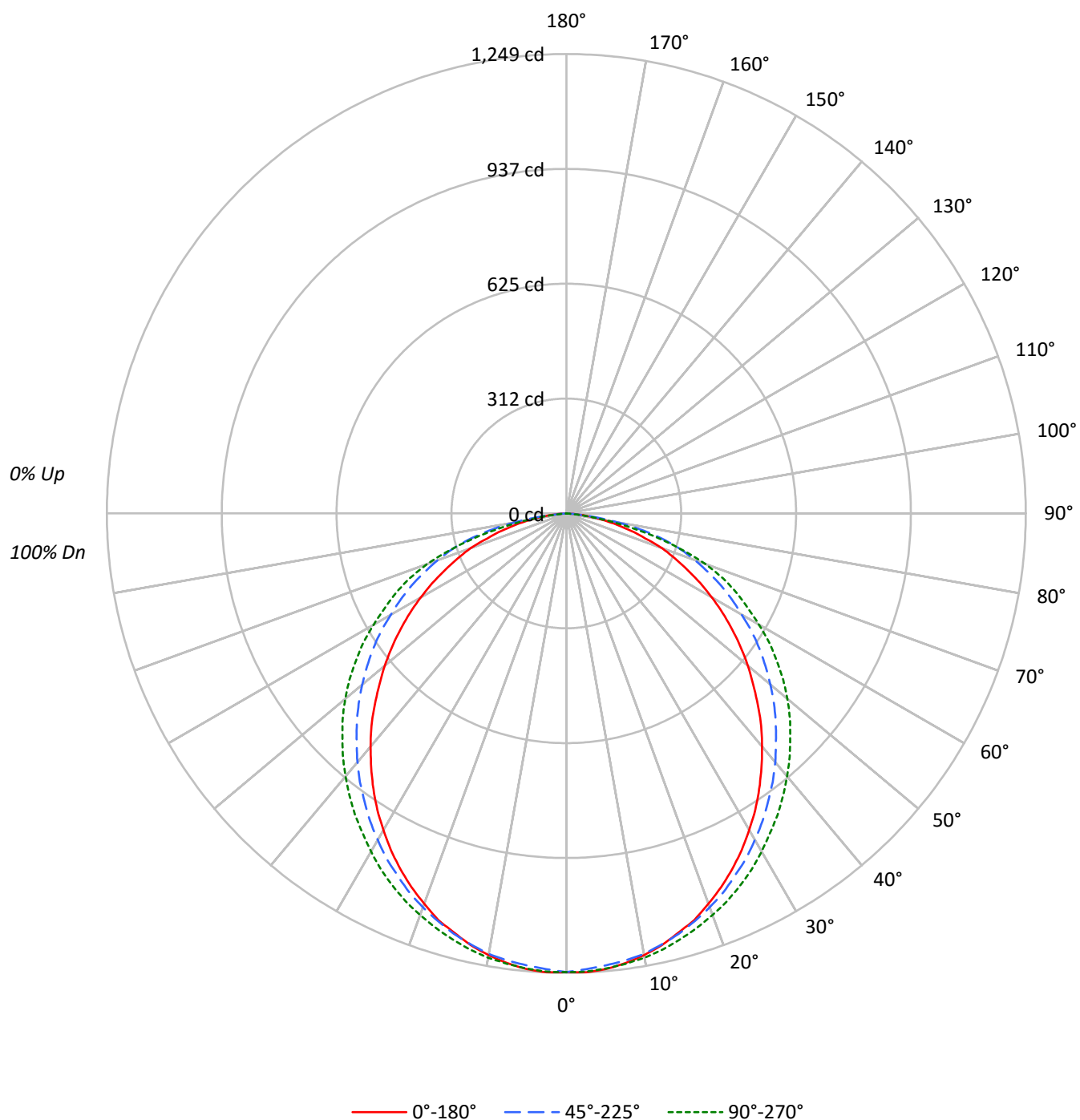
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3355	3355	3355
5°	3359	3331	3354
10°	3331	3322	3351
15°	3286	3295	3339
20°	3234	3263	3328
25°	3168	3224	3317
30°	3089	3186	3299
35°	3004	3141	3288
40°	2908	3103	3279
45°	2801	3065	3275
50°	2697	3031	3284
55°	2584	3006	3274
60°	2461	2964	3253
65°	2316	2955	3253
70°	2180	2930	3161
75°	1890	2863	2701
80°	1530	2307	1798
85°	1016	803	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.4
10°-20°	335.1	9.6
20°-30°	502.6	14.4
30°-40°	599.6	17.2
40°-50°	619.8	17.7
50°-60°	565.9	16.2
60°-70°	445.3	12.7
70°-80°	259.2	7.4
80°-90°	47.8	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°	955.4	27.4
0°-40°	1555.0	44.5
0°-60°	2740.7	78.5
0°-90°	3493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1244	1240	1233	1244	1242	118
15°	1179	1181	1183	1198	1198	333
25°	1067	1072	1086	1112	1117	491
35°	914	926	956	992	1001	572
45°	736	760	805	850	861	568
55°	551	580	641	688	698	492
65°	364	402	464	500	511	361
75°	182	225	275	270	260	193
85°	33	47	26	21	17	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.9	1246.9	1246.9	1246.9	1246.9
2.5°	1248.7	1245.2	1240.0	1248.7	1246.9
5°	1243.5	1240.0	1233.1	1243.5	1241.7
7.5°	1233.1	1229.6	1226.2	1236.6	1234.8
10°	1219.2	1217.5	1215.8	1227.9	1226.2
12.5°	1201.9	1201.9	1200.2	1214.0	1214.0
15°	1179.4	1181.1	1182.9	1198.5	1198.5
17.5°	1158.6	1156.9	1162.1	1179.4	1181.1
20°	1129.2	1132.6	1139.6	1160.3	1162.1
22.5°	1099.7	1103.2	1115.3	1136.1	1141.3
25°	1066.8	1072.0	1085.9	1111.9	1117.1
27.5°	1032.2	1039.1	1058.2	1085.9	1091.1
30°	994.1	1004.5	1025.3	1056.4	1061.6
32.5°	956.0	966.4	992.4	1023.5	1030.5
35°	914.4	926.5	956.0	992.4	1001.0
37.5°	871.1	886.7	921.4	957.7	968.1
40°	827.8	845.2	883.3	921.4	933.5
42.5°	784.5	801.9	843.4	886.7	898.8
45°	736.0	760.3	805.3	850.3	860.7
47.5°	689.3	715.3	765.5	810.5	824.4
50°	644.3	670.2	723.9	770.7	784.5
52.5°	597.5	625.2	682.4	730.8	743.0
55°	550.7	580.2	640.8	687.6	697.9
57.5°	504.0	535.1	597.5	642.5	654.6
60°	457.2	490.1	550.7	595.8	604.4
62.5°	410.5	445.1	507.4	547.3	555.9
65°	363.7	401.8	464.1	500.5	510.9
67.5°	318.7	356.8	417.4	452.0	460.7
70°	277.1	311.7	372.4	398.3	401.8
72.5°	225.1	268.4	327.3	341.2	332.5
75°	181.8	225.1	275.4	270.2	259.8
77.5°	138.5	181.8	214.8	197.4	183.6
80°	98.7	142.0	148.9	123.0	116.0
82.5°	64.1	98.7	83.1	64.1	52.0
85°	32.9	46.8	26.0	20.8	17.3
87.5°	10.4	6.9	3.5	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)