

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: P307981

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CA125-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: P307981
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: 14FCZ2-39-UNV-L82765-S-CA125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 3656.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

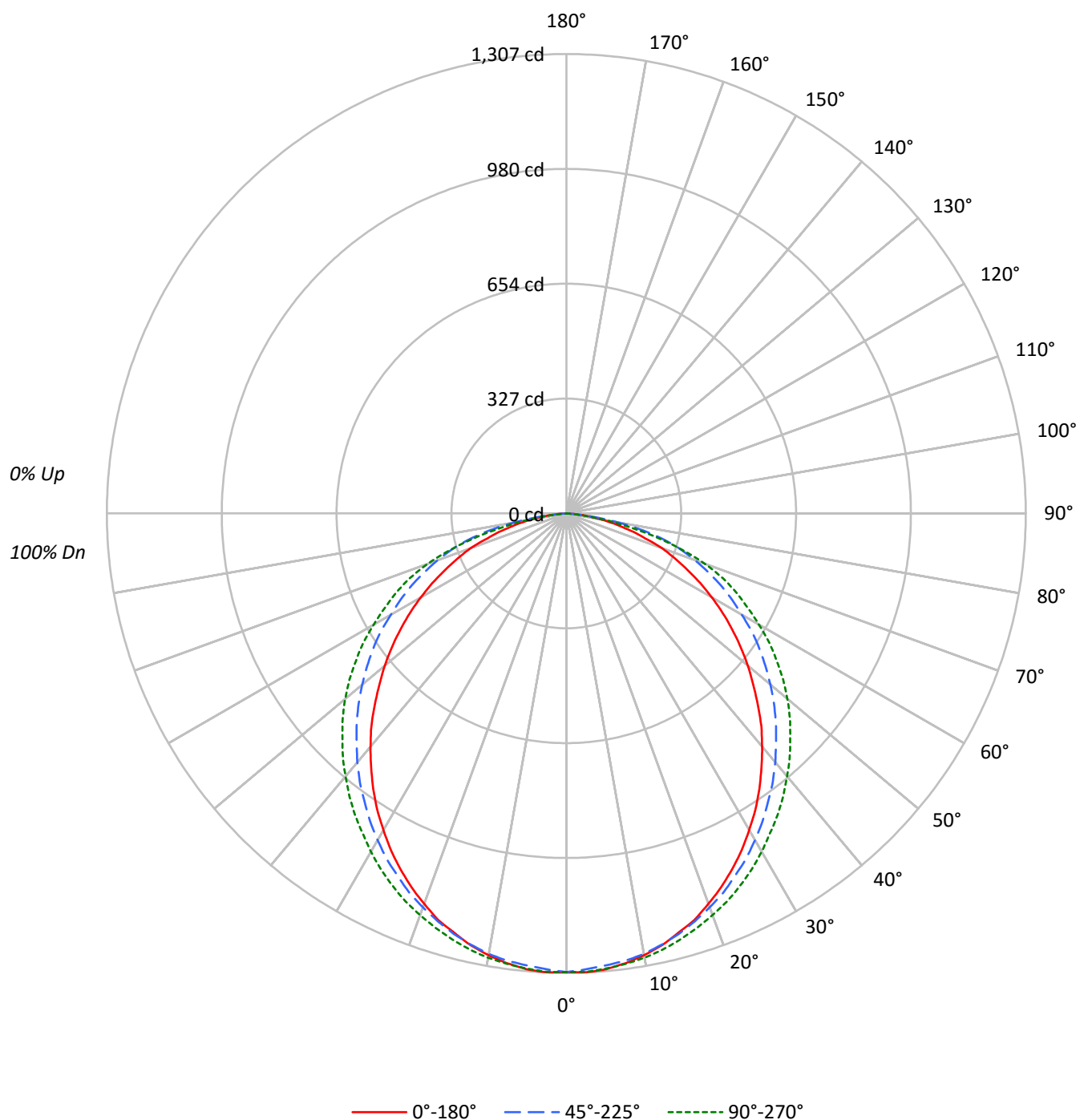
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3512	3512	3512
5°	3516	3486	3511
10°	3487	3477	3507
15°	3439	3449	3495
20°	3385	3416	3483
25°	3315	3375	3472
30°	3233	3334	3453
35°	3144	3287	3442
40°	3044	3248	3432
45°	2932	3208	3428
50°	2823	3172	3437
55°	2704	3147	3427
60°	2575	3102	3405
65°	2424	3093	3405
70°	2282	3066	3308
75°	1979	2996	2827
80°	1601	2416	1881
85°	1062	840	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.4
10°-20°	350.7	9.6
20°-30°	526.1	14.4
30°-40°	627.5	17.2
40°-50°	648.7	17.7
50°-60°	592.3	16.2
60°-70°	466.1	12.7
70°-80°	271.3	7.4
80°-90°	50.0	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°	1000.0	27.4
0°-40°	1627.5	44.5
0°-60°	2868.6	78.5
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1302	1298	1291	1302	1300	123
15°	1234	1236	1238	1254	1254	348
25°	1117	1122	1137	1164	1169	514
35°	957	970	1001	1039	1048	598
45°	770	796	843	890	901	595
55°	576	607	671	720	730	515
65°	381	420	486	524	535	378
75°	190	236	288	283	272	202
85°	34	49	27	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1306.9	1303.3	1297.9	1306.9	1305.1
5°	1301.5	1297.9	1290.6	1301.5	1299.7
7.5°	1290.6	1287.0	1283.4	1294.3	1292.4
10°	1276.1	1274.3	1272.5	1285.2	1283.4
12.5°	1258.0	1258.0	1256.2	1270.7	1270.7
15°	1234.4	1236.2	1238.1	1254.4	1254.4
17.5°	1212.7	1210.9	1216.3	1234.4	1236.2
20°	1181.9	1185.5	1192.7	1214.5	1216.3
22.5°	1151.1	1154.7	1167.4	1189.1	1194.6
25°	1116.6	1122.1	1136.6	1163.7	1169.2
27.5°	1080.4	1087.6	1107.5	1136.6	1142.0
30°	1040.5	1051.4	1073.1	1105.7	1111.2
32.5°	1000.6	1011.5	1038.7	1071.3	1078.5
35°	957.1	969.8	1000.6	1038.7	1047.7
37.5°	911.8	928.1	964.3	1002.4	1013.3
40°	866.5	884.6	924.5	964.3	977.0
42.5°	821.1	839.3	882.8	928.1	940.8
45°	770.4	795.8	842.9	890.0	900.9
47.5°	721.4	748.6	801.2	848.3	862.8
50°	674.3	701.5	757.7	806.6	821.1
52.5°	625.4	654.4	714.2	765.0	777.6
55°	576.4	607.2	670.7	719.6	730.5
57.5°	527.5	560.1	625.4	672.5	685.2
60°	478.5	513.0	576.4	623.6	632.6
62.5°	429.6	465.9	531.1	572.8	581.9
65°	380.7	420.5	485.8	523.9	534.7
67.5°	333.5	373.4	436.9	473.1	482.2
70°	290.0	326.3	389.7	416.9	420.5
72.5°	235.6	281.0	342.6	357.1	348.0
75°	190.3	235.6	288.2	282.8	271.9
77.5°	145.0	190.3	224.8	206.6	192.1
80°	103.3	148.6	155.9	128.7	121.4
82.5°	67.1	103.3	87.0	67.1	54.4
85°	34.4	48.9	27.2	21.8	18.1
87.5°	10.9	7.3	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)