

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: P308034

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CP125-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: P308034
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: 14FCZ2-44-UNV-L82765-S-CP125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB 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: 3874.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

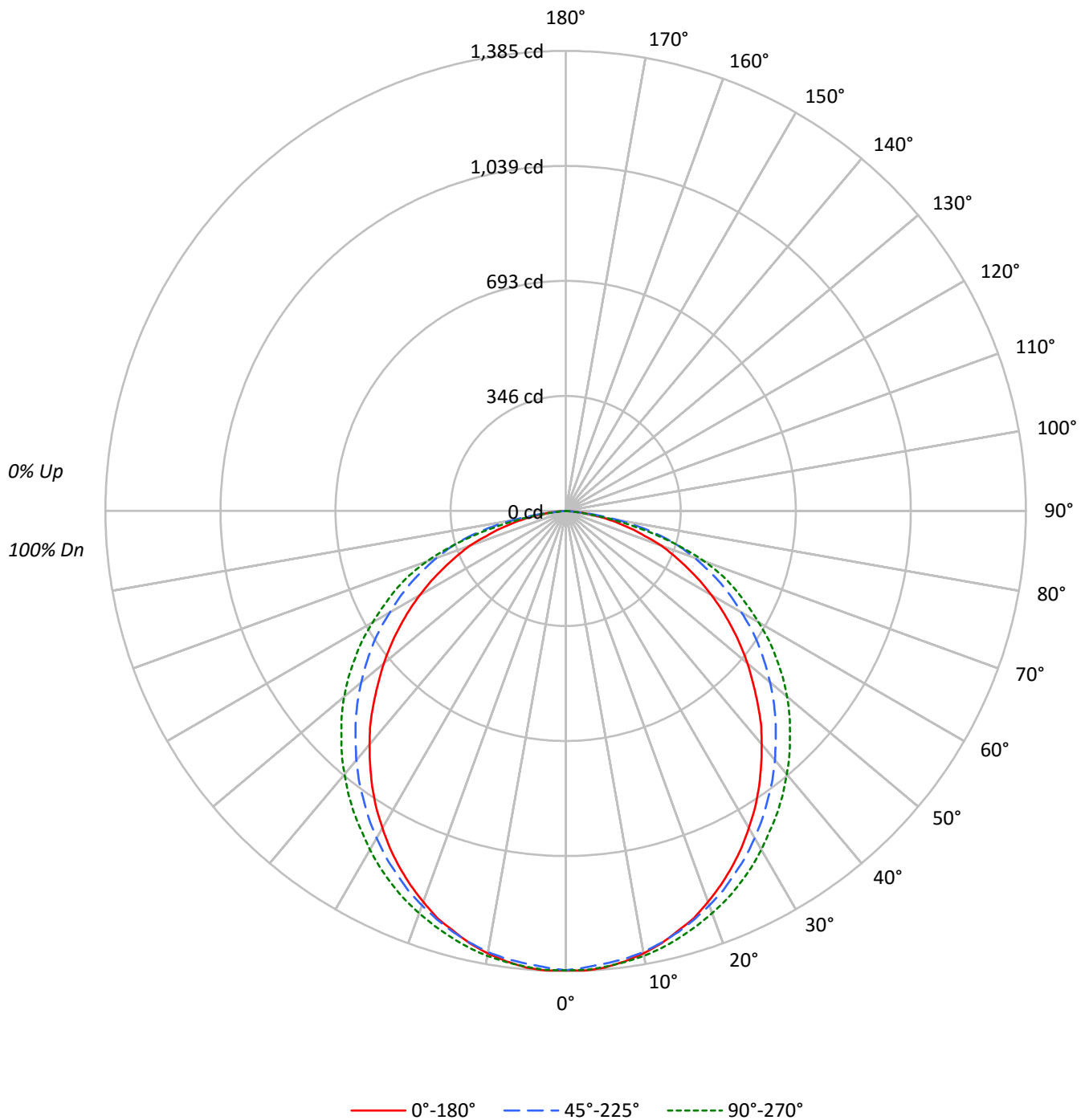
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3722	3722	3722
5°	3725	3694	3720
10°	3695	3684	3716
15°	3644	3655	3703
20°	3586	3619	3691
25°	3513	3576	3679
30°	3426	3533	3659
35°	3332	3483	3647
40°	3225	3441	3637
45°	3107	3399	3633
50°	2991	3361	3643
55°	2866	3334	3632
60°	2729	3287	3608
65°	2569	3278	3608
70°	2418	3249	3506
75°	2097	3175	2995
80°	1697	2560	1994
85°	1127	889	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.4
10°-20°	371.6	9.6
20°-30°	557.4	14.4
30°-40°	664.9	17.2
40°-50°	687.4	17.7
50°-60°	627.6	16.2
60°-70°	493.9	12.7
70°-80°	287.5	7.4
80°-90°	53.0	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°	1059.6	27.4
0°-40°	1724.6	44.5
0°-60°	3039.6	78.5
0°-90°	3874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1379	1375	1368	1379	1377	131
15°	1308	1310	1312	1329	1329	369
25°	1183	1189	1204	1233	1239	545
35°	1014	1028	1060	1101	1110	634
45°	816	843	893	943	955	630
55°	611	644	711	762	774	546
65°	403	446	515	555	567	401
75°	202	250	305	300	288	214
85°	36	52	29	23	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1384.9	1381.0	1375.3	1384.9	1383.0
5°	1379.1	1375.3	1367.6	1379.1	1377.2
7.5°	1367.6	1363.7	1359.9	1371.4	1369.5
10°	1352.2	1350.3	1348.4	1361.8	1359.9
12.5°	1333.0	1333.0	1331.1	1346.5	1346.5
15°	1308.0	1310.0	1311.9	1329.2	1329.2
17.5°	1285.0	1283.1	1288.8	1308.0	1310.0
20°	1252.3	1256.2	1263.9	1286.9	1288.8
22.5°	1219.7	1223.5	1237.0	1260.0	1265.8
25°	1183.2	1189.0	1204.3	1233.1	1238.9
27.5°	1144.8	1152.5	1173.6	1204.3	1210.1
30°	1102.5	1114.0	1137.1	1171.7	1177.4
32.5°	1060.3	1071.8	1100.6	1135.2	1142.9
35°	1014.2	1027.6	1060.3	1100.6	1110.2
37.5°	966.1	983.4	1021.8	1062.2	1073.7
40°	918.1	937.3	979.6	1021.8	1035.3
42.5°	870.1	889.3	935.4	983.4	996.9
45°	816.3	843.2	893.2	943.1	954.6
47.5°	764.5	793.3	849.0	898.9	914.3
50°	714.5	743.3	802.9	854.7	870.1
52.5°	662.7	693.4	756.8	810.6	824.0
55°	610.8	643.5	710.7	762.5	774.1
57.5°	558.9	593.5	662.7	712.6	726.1
60°	507.1	543.6	610.8	660.7	670.3
62.5°	455.2	493.6	562.8	607.0	616.6
65°	403.4	445.6	514.8	555.1	566.6
67.5°	353.4	395.7	462.9	501.3	510.9
70°	307.3	345.7	413.0	441.8	445.6
72.5°	249.7	297.7	363.0	378.4	368.8
75°	201.7	249.7	305.4	299.6	288.1
77.5°	153.7	201.7	238.2	219.0	203.6
80°	109.5	157.5	165.2	136.4	128.7
82.5°	71.1	109.5	92.2	71.1	57.6
85°	36.5	51.9	28.8	23.0	19.2
87.5°	11.5	7.7	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)