

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: P307983

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CA125-W2A-U-4500K**

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: P307983
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-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 4500K 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: 3803.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

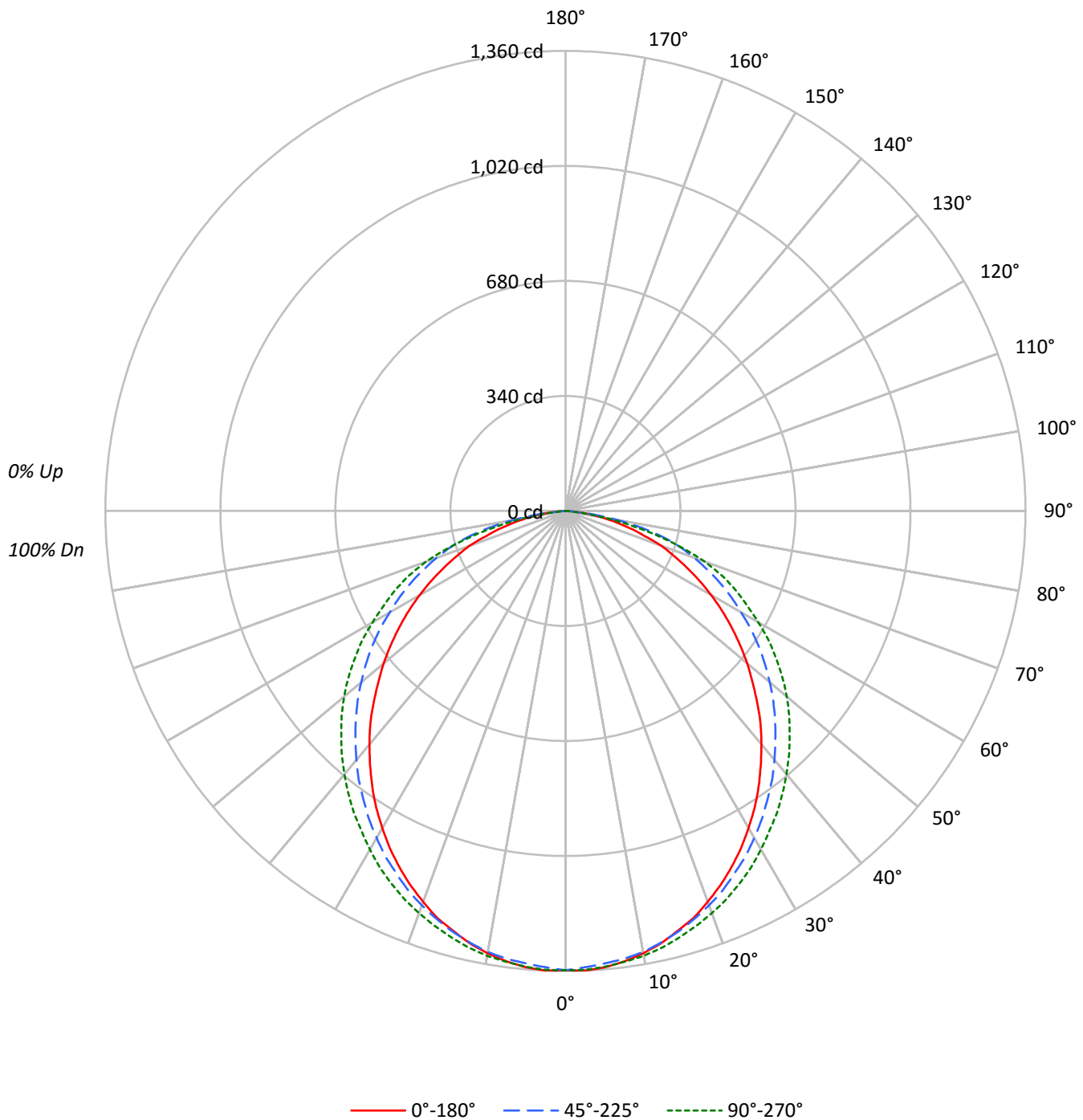
Input Watts (W): 33.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3653	3653	3653
5°	3657	3626	3652
10°	3627	3617	3648
15°	3577	3588	3635
20°	3521	3553	3623
25°	3449	3510	3611
30°	3363	3469	3592
35°	3271	3419	3580
40°	3166	3378	3570
45°	3050	3337	3566
50°	2936	3300	3576
55°	2813	3273	3565
60°	2679	3227	3542
65°	2521	3217	3542
70°	2374	3190	3442
75°	2059	3117	2940
80°	1666	2514	1957
85°	1105	874	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.4
10°-20°	364.8	9.6
20°-30°	547.2	14.4
30°-40°	652.8	17.2
40°-50°	674.8	17.7
50°-60°	616.1	16.2
60°-70°	484.9	12.7
70°-80°	282.2	7.4
80°-90°	52.0	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°	1040.2	27.4
0°-40°	1693.0	44.5
0°-60°	2983.9	78.5
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1354	1350	1342	1354	1352	128
15°	1284	1286	1288	1305	1305	362
25°	1162	1167	1182	1210	1216	535
35°	996	1009	1041	1080	1090	622
45°	801	828	877	926	937	619
55°	600	632	698	749	760	536
65°	396	438	505	545	556	393
75°	198	245	300	294	283	210
85°	36	51	28	23	19	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.6	1357.6	1357.6	1357.6	1357.6
2.5°	1359.5	1355.7	1350.1	1359.5	1357.6
5°	1353.8	1350.1	1342.5	1353.8	1352.0
7.5°	1342.5	1338.8	1335.0	1346.3	1344.4
10°	1327.4	1325.6	1323.7	1336.9	1335.0
12.5°	1308.6	1308.6	1306.7	1321.8	1321.8
15°	1284.1	1286.0	1287.8	1304.8	1304.8
17.5°	1261.4	1259.6	1265.2	1284.1	1286.0
20°	1229.4	1233.2	1240.7	1263.3	1265.2
22.5°	1197.3	1201.1	1214.3	1236.9	1242.6
25°	1161.5	1167.2	1182.3	1210.5	1216.2
27.5°	1123.8	1131.3	1152.1	1182.3	1187.9
30°	1082.3	1093.6	1116.3	1150.2	1155.9
32.5°	1040.8	1052.1	1080.4	1114.4	1121.9
35°	995.6	1008.8	1040.8	1080.4	1089.9
37.5°	948.4	965.4	1003.1	1042.7	1054.0
40°	901.3	920.2	961.6	1003.1	1016.3
42.5°	854.2	873.0	918.3	965.4	978.6
45°	801.4	827.8	876.8	925.8	937.1
47.5°	750.5	778.7	833.4	882.4	897.5
50°	701.4	729.7	788.2	839.1	854.2
52.5°	650.5	680.7	742.9	795.7	808.9
55°	599.6	631.7	697.7	748.6	759.9
57.5°	548.7	582.6	650.5	699.5	712.7
60°	497.8	533.6	599.6	648.6	658.1
62.5°	446.9	484.6	552.5	595.8	605.3
65°	396.0	437.5	505.3	544.9	556.2
67.5°	346.9	388.4	454.4	492.1	501.6
70°	301.7	339.4	405.4	433.7	437.5
72.5°	245.1	292.3	356.4	371.5	362.0
75°	198.0	245.1	299.8	294.1	282.8
77.5°	150.8	198.0	233.8	215.0	199.9
80°	107.5	154.6	162.2	133.9	126.3
82.5°	69.8	107.5	90.5	69.8	56.6
85°	35.8	50.9	28.3	22.6	18.9
87.5°	11.3	7.5	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)