

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: P307726

Luminaire Tested: **14FCZ2-39-UNV-L82765-CP125-W2A-U-6500K**

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: P307726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
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-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 6500K 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: 3797.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

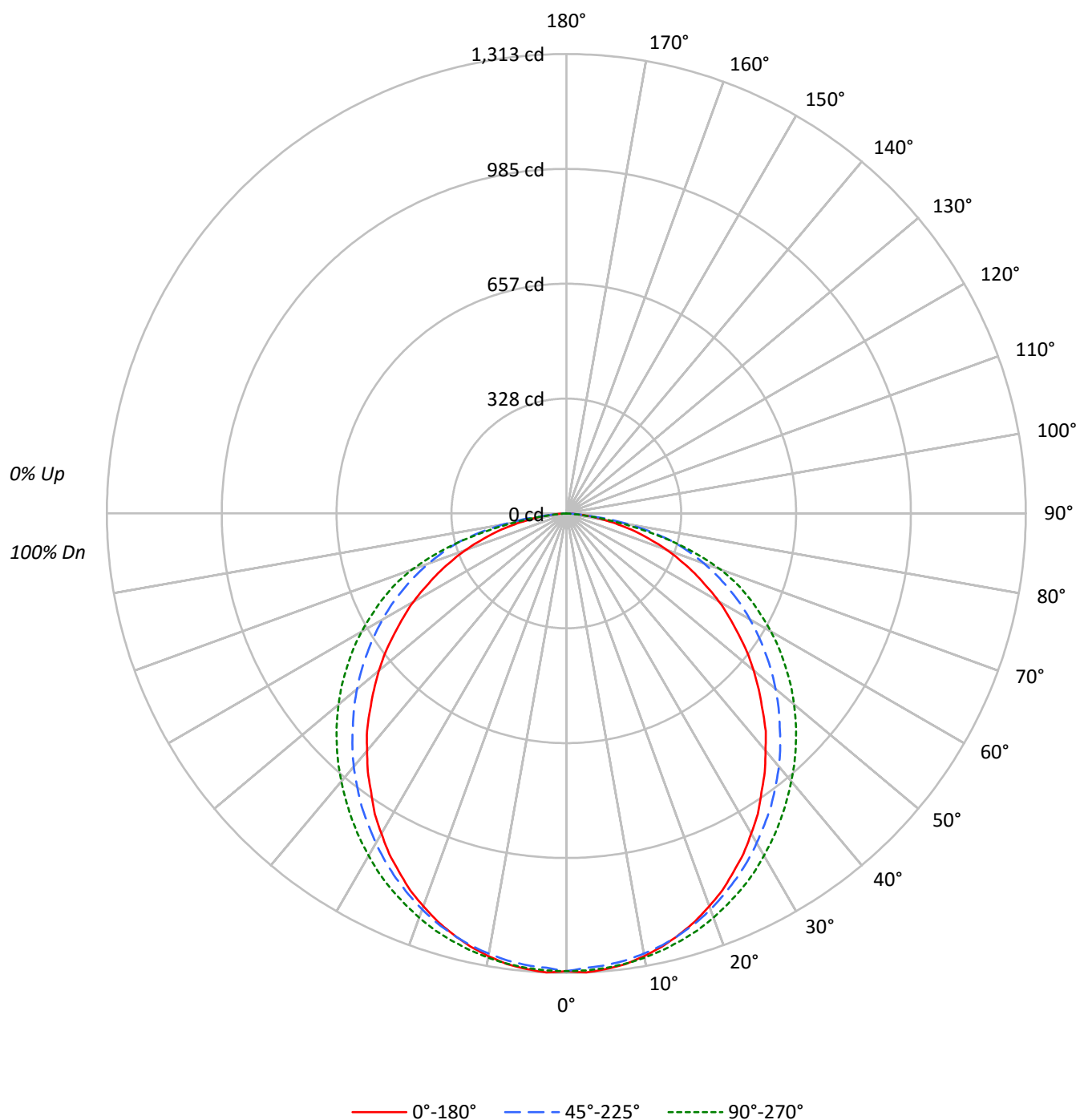
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3520	3520	3520
5°	3531	3501	3522
10°	3510	3491	3524
15°	3472	3474	3522
20°	3421	3450	3520
25°	3356	3416	3517
30°	3283	3380	3509
35°	3196	3351	3507
40°	3111	3319	3512
45°	3016	3283	3531
50°	2928	3268	3555
55°	2816	3257	3587
60°	2716	3263	3636
65°	2577	3272	3693
70°	2418	3297	3690
75°	2192	3327	3336
80°	1798	2873	2374
85°	1334	1359	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.3
10°-20°	353.6	9.3
20°-30°	532.6	14.0
30°-40°	639.2	16.8
40°-50°	666.2	17.5
50°-60°	616.7	16.2
60°-70°	498.3	13.1
70°-80°	303.8	8.0
80°-90°	62.7	1.7
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°	1010.0	26.6
0°-40°	1649.2	43.4
0°-60°	2932.1	77.2
0°-90°	3797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1307	1304	1296	1306	1304	124
15°	1246	1247	1247	1264	1264	351
25°	1130	1137	1151	1179	1184	521
35°	973	988	1020	1058	1068	609
45°	792	816	863	911	928	613
55°	600	632	694	748	764	538
65°	405	444	514	566	580	400
75°	211	257	320	325	321	221
85°	43	64	44	25	18	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.1	1308.1	1308.1	1308.1	1308.1
2.5°	1313.2	1308.9	1299.6	1308.9	1307.2
5°	1307.2	1303.8	1296.2	1305.5	1303.8
7.5°	1298.8	1295.4	1288.6	1299.6	1297.9
10°	1284.4	1282.7	1277.6	1290.3	1289.5
12.5°	1267.4	1266.6	1264.1	1278.4	1277.6
15°	1246.3	1247.1	1247.1	1264.1	1264.1
17.5°	1222.6	1224.3	1227.6	1246.3	1248.8
20°	1194.6	1198.0	1204.8	1226.0	1229.3
22.5°	1165.8	1168.4	1178.5	1203.9	1207.3
25°	1130.3	1137.1	1150.6	1179.4	1184.5
27.5°	1096.4	1102.3	1121.0	1150.6	1159.1
30°	1056.6	1065.9	1087.9	1120.1	1129.4
32.5°	1018.5	1028.7	1054.1	1091.3	1099.8
35°	972.8	988.0	1020.2	1057.5	1067.6
37.5°	931.3	945.7	982.1	1022.8	1034.6
40°	885.6	903.4	944.9	988.0	999.9
42.5°	843.3	860.2	905.1	949.1	965.2
45°	792.5	816.2	862.7	911.0	927.9
47.5°	745.9	769.6	822.9	874.6	889.8
50°	699.3	724.7	780.6	834.0	849.2
52.5°	651.1	678.2	738.3	791.6	809.4
55°	600.3	631.6	694.3	748.4	764.5
57.5°	552.0	584.2	651.1	706.1	722.2
60°	504.6	537.6	606.2	658.7	675.6
62.5°	452.1	491.1	562.2	613.8	626.5
65°	404.7	444.5	513.9	565.6	580.0
67.5°	354.7	397.9	467.4	514.8	528.3
70°	307.3	352.2	419.1	463.1	469.0
72.5°	256.5	302.3	370.0	397.9	397.9
75°	210.8	257.4	320.0	325.1	320.9
77.5°	160.9	212.5	253.1	243.0	232.8
80°	116.0	166.8	185.4	166.8	153.2
82.5°	77.9	121.1	111.8	88.9	78.7
85°	43.2	64.3	44.0	24.6	17.8
87.5°	16.1	14.4	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)