

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: P307725

Luminaire Tested: **14FCZ2-39-UNV-L82765-CP125-W2A-U-5700K**

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: P307725
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-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5700K 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

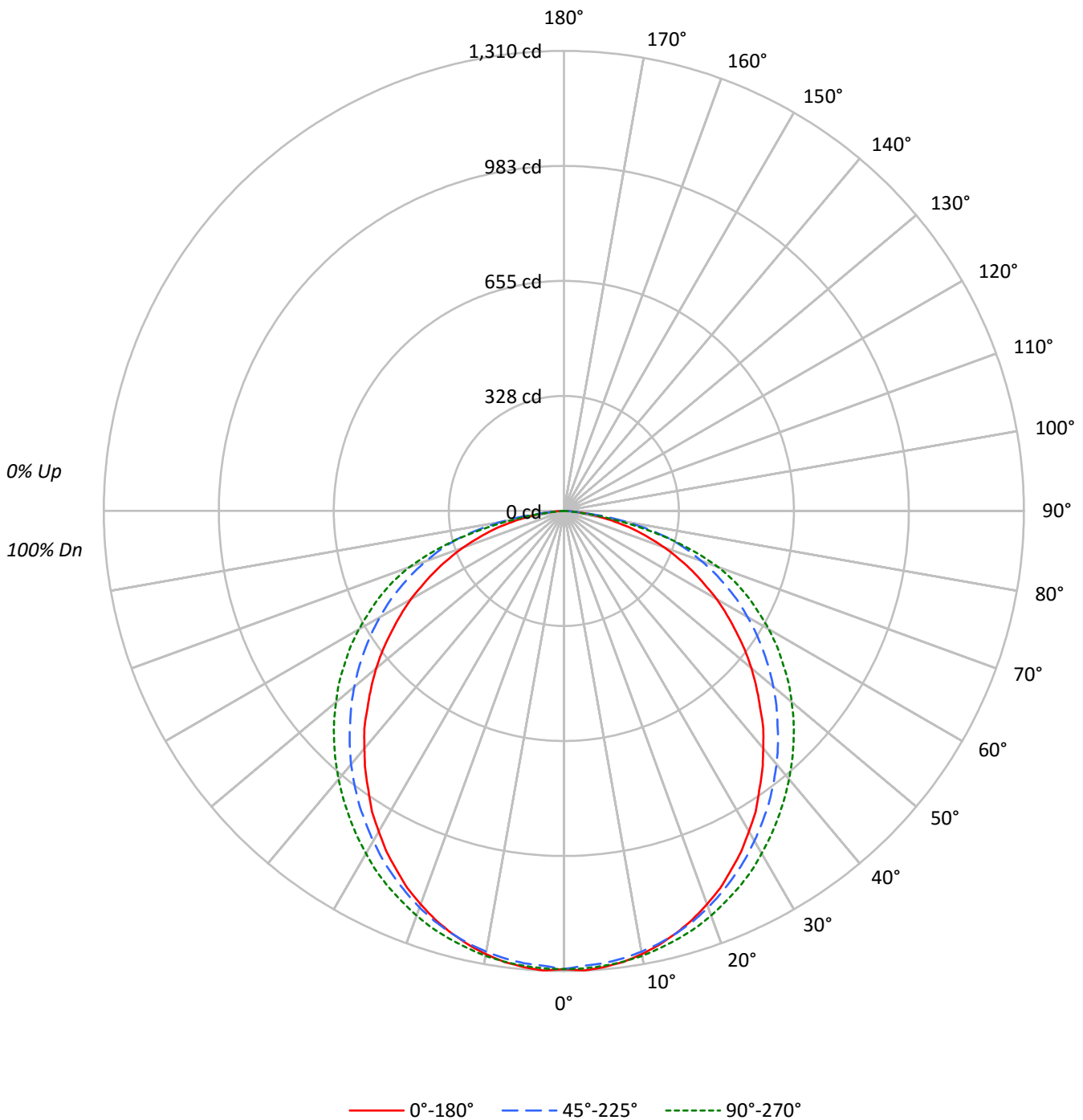
Lumens per Lamp: N/A
Luminaire Lumens: 3787.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (A_{in}): 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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3511	3511	3511
5°	3522	3492	3513
10°	3500	3482	3514
15°	3463	3465	3512
20°	3412	3441	3511
25°	3347	3407	3507
30°	3274	3372	3500
35°	3187	3343	3498
40°	3103	3310	3503
45°	3008	3275	3522
50°	2920	3260	3546
55°	2809	3248	3577
60°	2709	3254	3626
65°	2570	3264	3683
70°	2412	3289	3681
75°	2187	3319	3327
80°	1793	2865	2368
85°	1331	1355	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.3
10°-20°	352.7	9.3
20°-30°	531.2	14.0
30°-40°	637.5	16.8
40°-50°	664.4	17.5
50°-60°	615.1	16.2
60°-70°	497.0	13.1
70°-80°	303.0	8.0
80°-90°	62.6	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°	1007.3	26.6
0°-40°	1644.8	43.4
0°-60°	2924.4	77.2
0°-90°	3787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1304	1300	1293	1302	1300	124
15°	1243	1244	1244	1261	1261	350
25°	1127	1134	1148	1176	1181	520
35°	970	985	1018	1055	1065	608
45°	790	814	860	909	926	611
55°	599	630	692	746	762	536
65°	404	443	513	564	578	399
75°	210	257	319	324	320	221
85°	43	64	44	24	18	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1309.7	1305.5	1296.2	1305.5	1303.8
5°	1303.8	1300.4	1292.8	1302.1	1300.4
7.5°	1295.3	1292.0	1285.2	1296.2	1294.5
10°	1281.0	1279.3	1274.2	1286.9	1286.1
12.5°	1264.1	1263.3	1260.7	1275.1	1274.2
15°	1243.0	1243.8	1243.8	1260.7	1260.7
17.5°	1219.3	1221.0	1224.4	1243.0	1245.5
20°	1191.5	1194.9	1201.6	1222.7	1226.1
22.5°	1162.8	1165.3	1175.4	1200.8	1204.1
25°	1127.3	1134.1	1147.6	1176.3	1181.3
27.5°	1093.5	1099.4	1118.0	1147.6	1156.0
30°	1053.8	1063.1	1085.1	1117.2	1126.5
32.5°	1015.8	1026.0	1051.3	1088.5	1096.9
35°	970.2	985.4	1017.5	1054.7	1064.8
37.5°	928.9	943.2	979.5	1020.1	1031.9
40°	883.3	901.0	942.4	985.4	997.3
42.5°	841.0	857.9	902.7	946.6	962.6
45°	790.4	814.0	860.5	908.6	925.5
47.5°	743.9	767.6	820.8	872.3	887.5
50°	697.5	722.8	778.6	831.8	847.0
52.5°	649.4	676.4	736.3	789.5	807.3
55°	598.7	629.9	692.4	746.5	762.5
57.5°	550.6	582.7	649.4	704.2	720.3
60°	503.3	536.2	604.6	657.0	673.8
62.5°	450.9	489.8	560.7	612.2	624.9
65°	403.6	443.3	512.6	564.1	578.4
67.5°	353.8	396.9	466.1	513.4	526.9
70°	306.5	351.3	418.0	461.9	467.8
72.5°	255.9	301.5	369.0	396.9	396.9
75°	210.3	256.7	319.2	324.3	320.0
77.5°	160.4	212.0	252.5	242.3	232.2
80°	115.7	166.4	184.9	166.4	152.8
82.5°	77.7	120.8	111.5	88.7	78.5
85°	43.1	64.2	43.9	24.5	17.7
87.5°	16.0	14.4	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)