

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: P307763

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP125-W2A-U-2700K**

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: P307763
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: 14FCZ2-44-UNV-L82765-CP125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 2700K 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: 3726.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

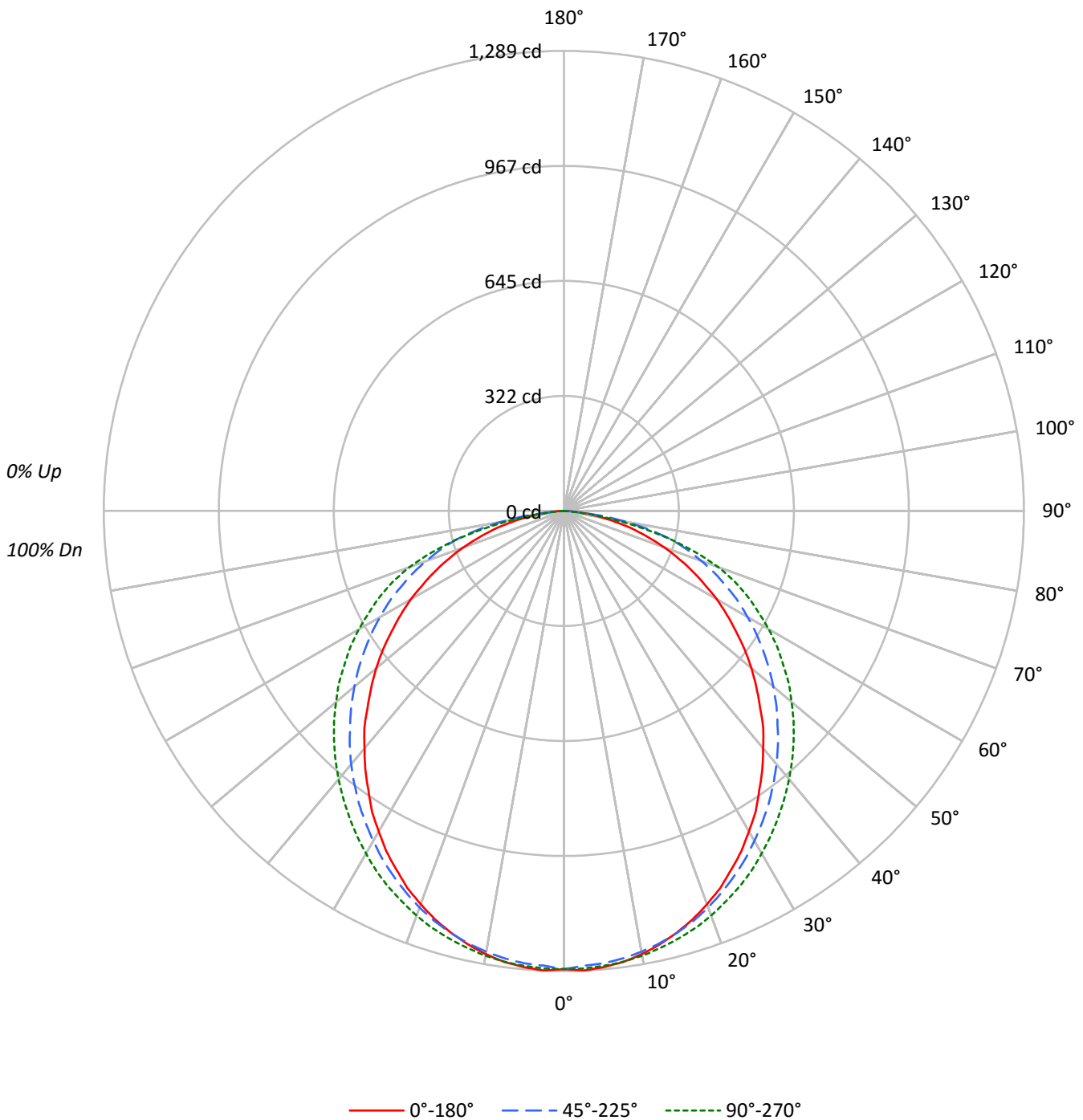
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3454	3454	3454
5°	3465	3436	3456
10°	3444	3426	3457
15°	3407	3409	3456
20°	3357	3386	3455
25°	3293	3352	3451
30°	3222	3317	3444
35°	3136	3289	3442
40°	3053	3257	3447
45°	2959	3222	3465
50°	2873	3207	3489
55°	2764	3196	3520
60°	2665	3202	3568
65°	2528	3211	3624
70°	2373	3236	3622
75°	2151	3266	3274
80°	1764	2819	2331
85°	1309	1334	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.3
10°-20°	347.0	9.3
20°-30°	522.7	14.0
30°-40°	627.2	16.8
40°-50°	653.7	17.5
50°-60°	605.2	16.2
60°-70°	489.0	13.1
70°-80°	298.2	8.0
80°-90°	61.6	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°	991.1	26.6
0°-40°	1618.3	43.4
0°-60°	2877.3	77.2
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1283	1280	1272	1281	1280	122
15°	1223	1224	1224	1240	1240	345
25°	1109	1116	1129	1157	1162	511
35°	955	970	1001	1038	1048	598
45°	778	801	847	894	911	601
55°	589	620	681	734	750	528
65°	397	436	504	555	569	393
75°	207	253	314	319	315	217
85°	42	63	43	24	17	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1288.6	1284.4	1275.3	1284.4	1282.8
5°	1282.8	1279.5	1272.0	1281.1	1279.5
7.5°	1274.5	1271.2	1264.5	1275.3	1273.6
10°	1260.4	1258.7	1253.7	1266.2	1265.3
12.5°	1243.7	1242.9	1240.4	1254.5	1253.7
15°	1223.0	1223.8	1223.8	1240.4	1240.4
17.5°	1199.7	1201.4	1204.7	1223.0	1225.5
20°	1172.3	1175.6	1182.3	1203.0	1206.4
22.5°	1144.0	1146.5	1156.5	1181.4	1184.8
25°	1109.1	1115.8	1129.1	1157.3	1162.3
27.5°	1075.9	1081.7	1100.0	1129.1	1137.4
30°	1036.9	1046.0	1067.6	1099.2	1108.3
32.5°	999.5	1009.4	1034.4	1070.9	1079.2
35°	954.6	969.6	1001.1	1037.7	1047.7
37.5°	913.9	928.0	963.8	1003.6	1015.3
40°	869.0	886.5	927.2	969.6	981.2
42.5°	827.5	844.1	888.1	931.4	947.1
45°	777.6	800.9	846.6	894.0	910.6
47.5°	732.0	755.2	807.6	858.2	873.2
50°	686.3	711.2	766.0	818.4	833.3
52.5°	638.9	665.5	724.5	776.8	794.3
55°	589.1	619.8	681.3	734.4	750.2
57.5°	541.7	573.3	638.9	692.9	708.7
60°	495.2	527.6	594.9	646.4	663.0
62.5°	443.7	481.9	551.7	602.3	614.8
65°	397.1	436.2	504.3	555.0	569.1
67.5°	348.1	390.5	458.6	505.1	518.4
70°	301.6	345.6	411.3	454.5	460.3
72.5°	251.7	296.6	363.1	390.5	390.5
75°	206.9	252.6	314.1	319.0	314.9
77.5°	157.9	208.5	248.4	238.4	228.5
80°	113.8	163.7	181.9	163.7	150.4
82.5°	76.4	118.8	109.7	87.2	77.3
85°	42.4	63.1	43.2	24.1	17.4
87.5°	15.8	14.1	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)