

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: P307305

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA125-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: P307305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-RDP-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC 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: 1415.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

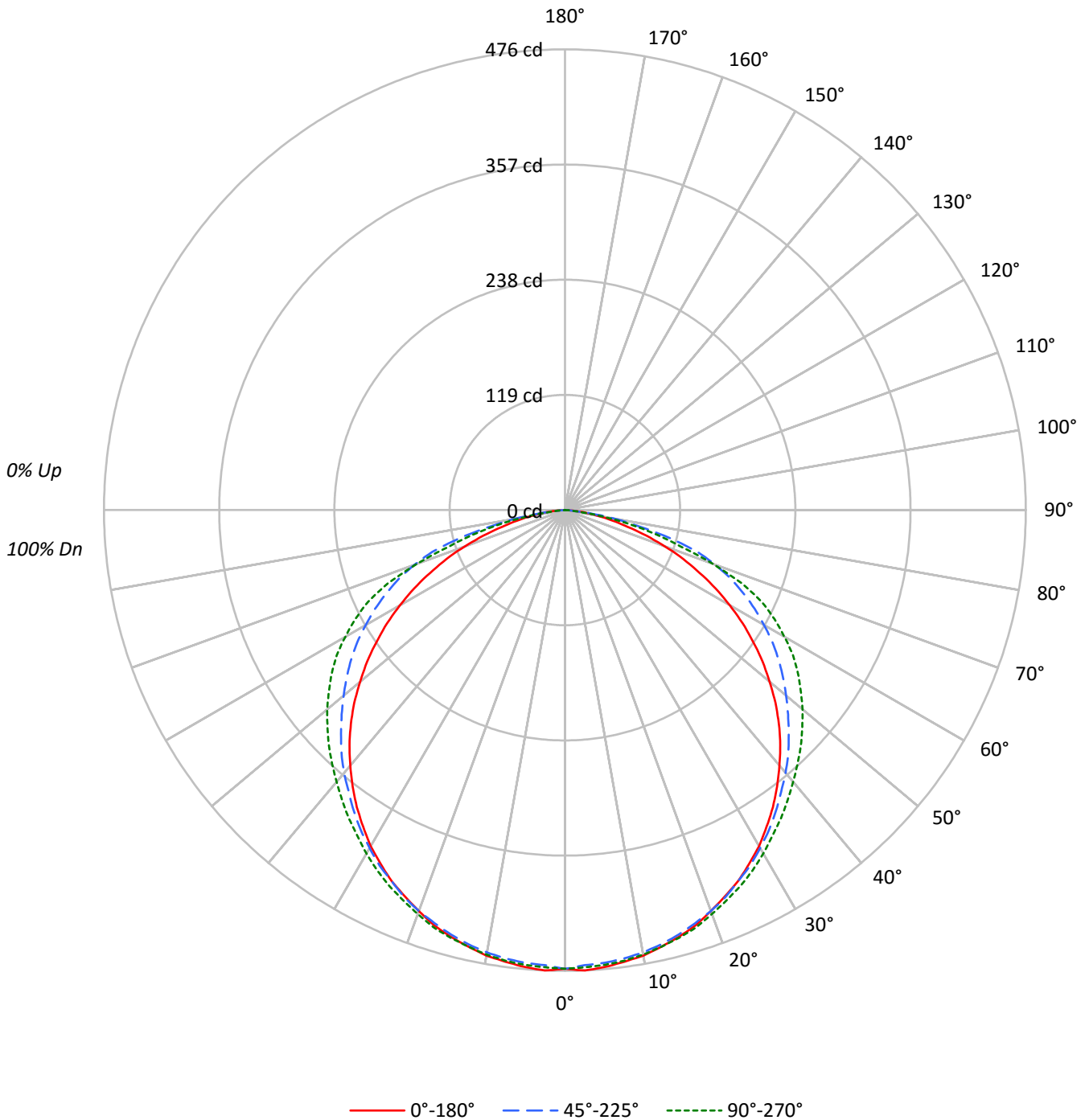
Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1275	1275	1275
5°	1280	1268	1274
10°	1277	1268	1274
15°	1271	1265	1274
20°	1262	1262	1272
25°	1256	1256	1273
30°	1246	1253	1273
35°	1230	1248	1278
40°	1211	1246	1289
45°	1190	1244	1312
50°	1156	1249	1341
55°	1114	1264	1379
60°	1058	1278	1409
65°	978	1294	1428
70°	869	1304	1278
75°	701	1172	1022
80°	549	821	668
85°	377	238	170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.2
10°-20°	128.7	9.1
20°-30°	196.0	13.8
30°-40°	238.7	16.9
40°-50°	253.2	17.9
50°-60°	239.0	16.9
60°-70°	193.0	13.6
70°-80°	104.7	7.4
80°-90°	16.9	1.2
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°	369.5	26.1
0°-40°	608.2	43.0
0°-60°	1100.4	77.8
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	474	473	470	473	472	45
15°	456	455	454	457	457	129
25°	423	422	423	428	429	195
35°	374	377	380	388	389	234
45°	313	317	327	339	345	241
55°	238	248	270	287	294	212
65°	154	172	203	220	224	152
75°	67	98	113	102	98	74
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.9	473.9	473.9	473.9	473.9
2.5°	476.1	473.9	470.6	473.9	472.8
5°	473.9	472.8	469.5	472.8	471.7
7.5°	470.6	470.6	467.3	469.5	469.5
10°	467.3	466.2	464.0	467.3	466.2
12.5°	461.8	460.7	459.6	462.9	461.8
15°	456.2	455.1	454.0	457.3	457.3
17.5°	449.6	448.5	447.4	451.8	451.8
20°	440.8	440.8	440.8	445.2	444.1
22.5°	431.9	431.9	433.0	437.5	436.4
25°	423.1	422.0	423.1	427.5	428.6
27.5°	412.1	413.2	414.3	418.7	419.8
30°	401.0	402.1	403.2	408.7	409.8
32.5°	387.8	390.0	392.2	398.8	398.8
35°	374.5	376.7	380.0	387.8	388.9
37.5°	360.1	362.3	366.8	375.6	377.8
40°	344.7	348.0	354.6	363.4	366.8
42.5°	329.2	333.6	341.4	351.3	355.7
45°	312.6	317.1	327.0	339.1	344.7
47.5°	295.0	300.5	312.6	328.1	332.5
50°	276.2	283.9	298.3	314.8	320.4
52.5°	257.4	266.2	283.9	301.6	307.1
55°	237.5	247.5	269.5	287.2	293.9
57.5°	217.6	228.7	254.1	272.9	279.5
60°	196.6	209.9	237.5	256.3	261.8
62.5°	175.6	191.1	220.9	239.7	244.1
65°	153.6	172.3	203.3	219.8	224.3
67.5°	132.6	154.7	185.6	197.7	197.7
70°	110.5	134.8	165.7	169.0	162.4
72.5°	88.4	116.0	143.6	131.5	125.9
75°	67.4	98.3	112.7	101.6	98.3
77.5°	50.8	79.5	79.5	72.9	70.7
80°	35.4	60.8	53.0	46.4	43.1
82.5°	23.2	34.2	27.6	22.1	18.8
85°	12.2	13.3	7.7	6.6	5.5
87.5°	4.4	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)