

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: P307296

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CA08-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: P307296
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-CA08-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" 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: 1420.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

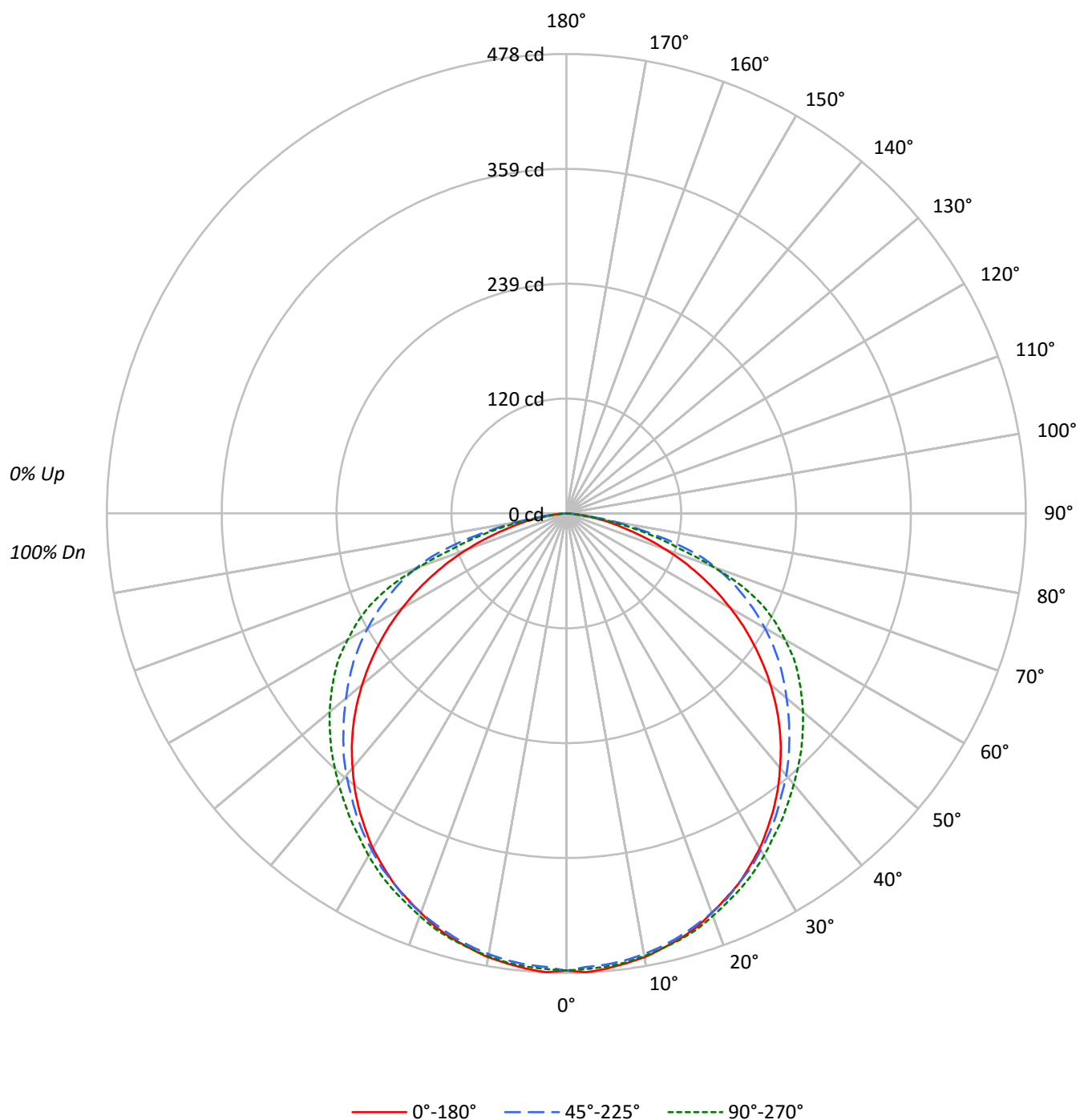
Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1280	1280	1280
5°	1285	1273	1279
10°	1281	1272	1278
15°	1276	1269	1279
20°	1267	1267	1276
25°	1261	1261	1277
30°	1250	1257	1278
35°	1235	1253	1282
40°	1215	1250	1293
45°	1194	1249	1316
50°	1160	1253	1346
55°	1118	1269	1384
60°	1062	1283	1414
65°	981	1299	1433
70°	873	1308	1282
75°	703	1176	1026
80°	550	824	669
85°	377	241	170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	3.2
10°-20°	129.2	9.1
20°-30°	196.7	13.8
30°-40°	239.5	16.9
40°-50°	254.1	17.9
50°-60°	239.8	16.9
60°-70°	193.6	13.6
70°-80°	105.1	7.4
80°-90°	17.0	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°	370.8	26.1
0°-40°	610.3	43.0
0°-60°	1104.3	77.8
0°-90°	1420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	474	471	474	473	45
15°	458	457	456	459	459	129
25°	425	424	425	429	430	195
35°	376	378	381	389	390	235
45°	314	318	328	340	346	242
55°	238	248	270	288	295	213
65°	154	173	204	221	225	153
75°	68	99	113	102	99	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°	475.6	475.6	475.6	475.6	475.6
2.5°	477.8	475.6	472.3	475.6	474.5
5°	475.6	474.5	471.2	474.5	473.4
7.5°	472.3	472.3	468.9	471.2	471.2
10°	468.9	467.8	465.6	468.9	467.8
12.5°	463.4	462.3	461.2	464.5	463.4
15°	457.9	456.7	455.6	459.0	459.0
17.5°	451.2	450.1	449.0	453.4	453.4
20°	442.3	442.3	442.3	446.8	445.7
22.5°	433.5	433.5	434.6	439.0	437.9
25°	424.6	423.5	424.6	429.0	430.1
27.5°	413.5	414.6	415.7	420.2	421.3
30°	402.4	403.5	404.6	410.2	411.3
32.5°	389.1	391.3	393.6	400.2	400.2
35°	375.8	378.0	381.4	389.1	390.2
37.5°	361.4	363.6	368.1	376.9	379.1
40°	345.9	349.2	355.9	364.7	368.1
42.5°	330.4	334.8	342.6	352.5	357.0
45°	313.7	318.2	328.1	340.3	345.9
47.5°	296.0	301.5	313.7	329.3	333.7
50°	277.2	284.9	299.3	316.0	321.5
52.5°	258.3	267.2	284.9	302.7	308.2
55°	238.4	248.3	270.5	288.2	294.9
57.5°	218.4	229.5	255.0	273.8	280.5
60°	197.3	210.6	238.4	257.2	262.7
62.5°	176.3	191.8	221.7	240.6	245.0
65°	154.1	172.9	204.0	220.6	225.0
67.5°	133.0	155.2	186.2	198.4	198.4
70°	110.9	135.3	166.3	169.6	163.0
72.5°	88.7	116.4	144.1	131.9	126.4
75°	67.6	98.7	113.1	102.0	98.7
77.5°	51.0	79.8	79.8	73.2	71.0
80°	35.5	61.0	53.2	46.6	43.2
82.5°	23.3	34.4	27.7	22.2	18.8
85°	12.2	13.3	7.8	6.7	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)