

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: P307274

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CP125-W2A-U-5500K**

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: P307274
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: 14FCZ2-20-UNV-L82765-RDP-CP125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5500K 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: 1310.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

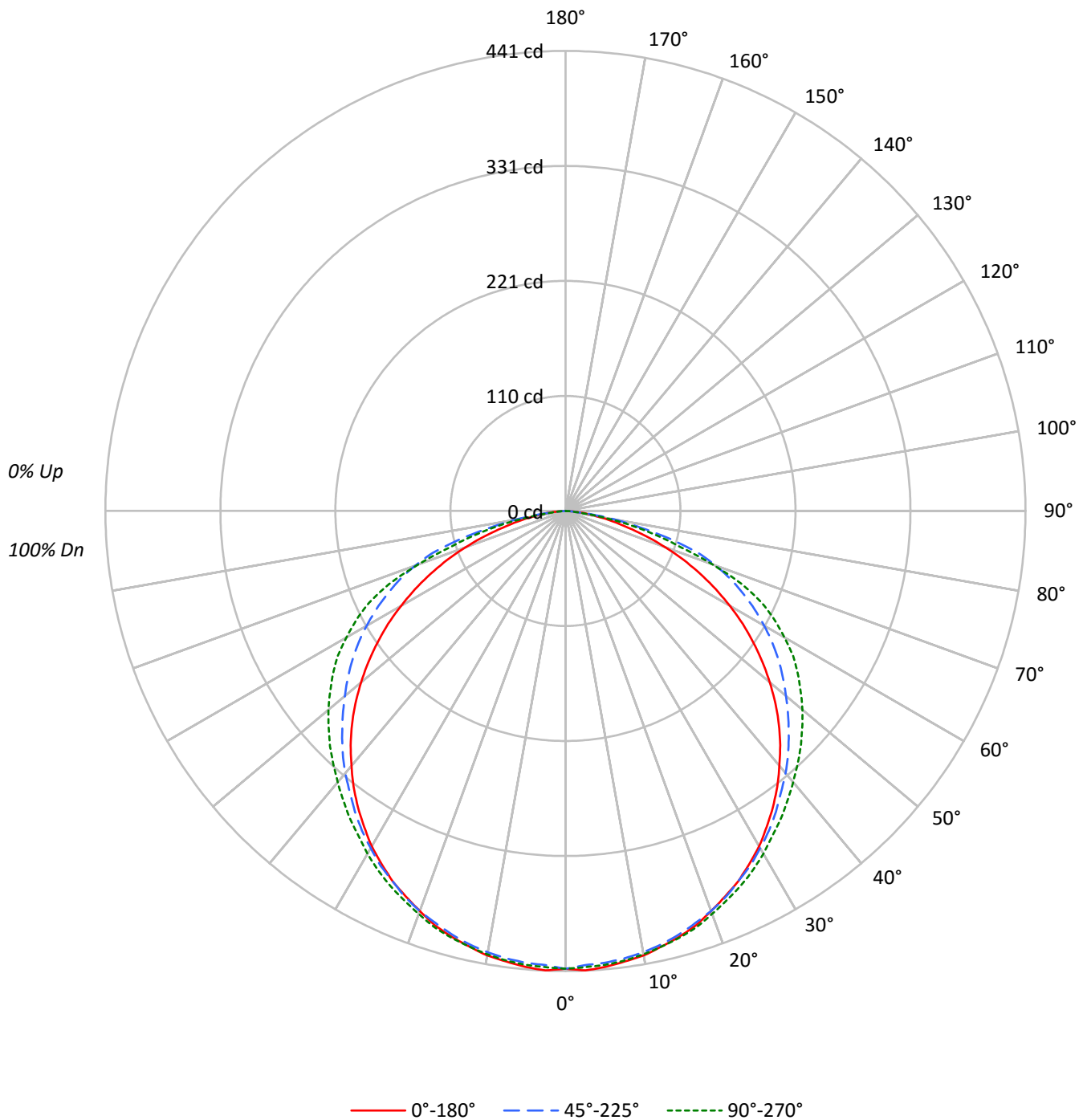
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1181	1181	1181
5°	1185	1174	1180
10°	1182	1174	1179
15°	1177	1171	1180
20°	1169	1169	1177
25°	1163	1163	1178
30°	1154	1160	1179
35°	1139	1156	1183
40°	1121	1153	1193
45°	1101	1152	1214
50°	1070	1156	1242
55°	1032	1171	1276
60°	980	1183	1305
65°	905	1198	1322
70°	805	1207	1183
75°	649	1084	946
80°	507	761	618
85°	349	222	157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	3.2
10°-20°	119.1	9.1
20°-30°	181.4	13.8
30°-40°	221.0	16.9
40°-50°	234.4	17.9
50°-60°	221.3	16.9
60°-70°	178.6	13.6
70°-80°	96.9	7.4
80°-90°	15.7	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°	342.1	26.1
0°-40°	563.1	43.0
0°-60°	1018.8	77.8
0°-90°	1310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	439	438	435	438	437	42
15°	422	421	420	423	423	119
25°	392	391	392	396	397	180
35°	347	349	352	359	360	217
45°	289	294	303	314	319	223
55°	220	229	250	266	272	196
65°	142	160	188	204	208	141
75°	62	91	104	94	91	68
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	438.8	438.8	438.8	438.8	438.8
2.5°	440.8	438.8	435.7	438.8	437.7
5°	438.8	437.7	434.7	437.7	436.7
7.5°	435.7	435.7	432.6	434.7	434.7
10°	432.6	431.6	429.5	432.6	431.6
12.5°	427.5	426.5	425.5	428.5	427.5
15°	422.4	421.4	420.3	423.4	423.4
17.5°	416.3	415.2	414.2	418.3	418.3
20°	408.1	408.1	408.1	412.2	411.1
22.5°	399.9	399.9	400.9	405.0	404.0
25°	391.7	390.7	391.7	395.8	396.8
27.5°	381.5	382.5	383.5	387.6	388.6
30°	371.3	372.3	373.3	378.4	379.4
32.5°	359.0	361.0	363.1	369.2	369.2
35°	346.7	348.8	351.8	359.0	360.0
37.5°	333.4	335.5	339.5	347.7	349.8
40°	319.1	322.2	328.3	336.5	339.5
42.5°	304.8	308.9	316.0	325.2	329.3
45°	289.4	293.5	302.7	314.0	319.1
47.5°	273.1	278.2	289.4	303.8	307.8
50°	255.7	262.8	276.1	291.5	296.6
52.5°	238.3	246.5	262.8	279.2	284.3
55°	219.9	229.1	249.5	265.9	272.0
57.5°	201.5	211.7	235.2	252.6	258.8
60°	182.0	194.3	219.9	237.3	242.4
62.5°	162.6	176.9	204.5	221.9	226.0
65°	142.2	159.5	188.2	203.5	207.6
67.5°	122.7	143.2	171.8	183.1	183.1
70°	102.3	124.8	153.4	156.5	150.3
72.5°	81.8	107.4	133.0	121.7	116.6
75°	62.4	91.0	104.3	94.1	91.0
77.5°	47.0	73.6	73.6	67.5	65.5
80°	32.7	56.3	49.1	43.0	39.9
82.5°	21.5	31.7	25.6	20.5	17.4
85°	11.3	12.3	7.2	6.1	5.1
87.5°	4.1	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)