

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: P307265

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-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: P307265
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-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC 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: 1336.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

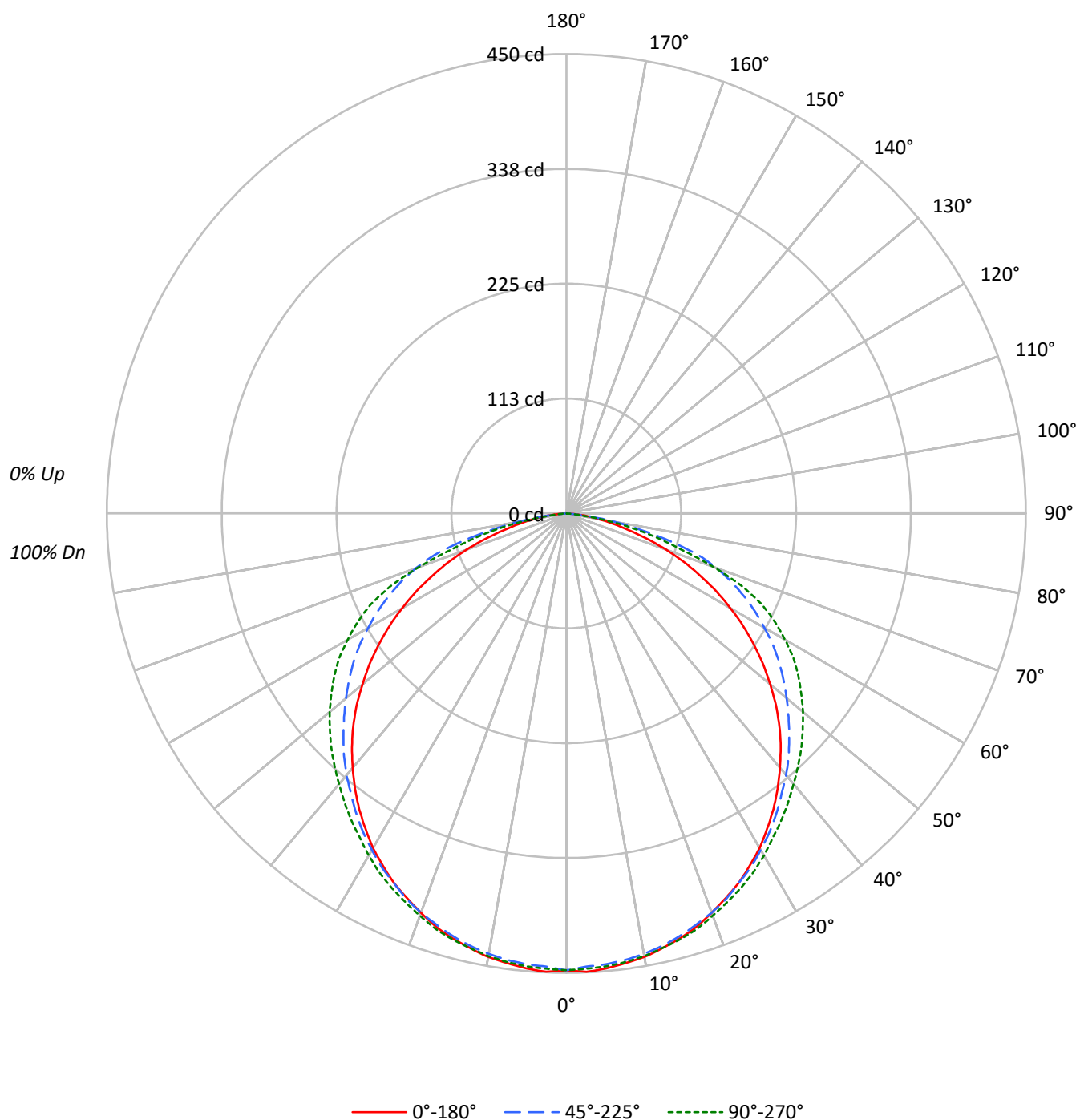
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1204	1204	1204
5°	1209	1197	1203
10°	1206	1197	1203
15°	1200	1194	1203
20°	1192	1192	1201
25°	1186	1186	1202
30°	1176	1183	1203
35°	1162	1179	1206
40°	1143	1176	1216
45°	1123	1175	1238
50°	1092	1179	1266
55°	1052	1194	1301
60°	999	1207	1330
65°	923	1222	1348
70°	821	1231	1206
75°	661	1106	965
80°	518	776	631
85°	355	225	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.2
10°-20°	121.5	9.1
20°-30°	185.0	13.8
30°-40°	225.4	16.9
40°-50°	239.1	17.9
50°-60°	225.7	16.9
60°-70°	182.2	13.6
70°-80°	98.8	7.4
80°-90°	16.0	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°	348.9	26.1
0°-40°	574.2	43.0
0°-60°	1039.0	77.8
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	448	446	443	446	445	42
15°	431	430	429	432	432	122
25°	400	398	400	404	405	184
35°	354	356	359	366	367	221
45°	295	299	309	320	325	227
55°	224	234	254	271	277	200
65°	145	163	192	208	212	144
75°	64	93	106	96	93	70
85°	12	12	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	447.5	447.5	447.5	447.5	447.5
2.5°	449.5	447.5	444.3	447.5	446.4
5°	447.5	446.4	443.3	446.4	445.4
7.5°	444.3	444.3	441.2	443.3	443.3
10°	441.2	440.2	438.1	441.2	440.2
12.5°	436.0	434.9	433.9	437.0	436.0
15°	430.8	429.7	428.7	431.8	431.8
17.5°	424.5	423.5	422.4	426.6	426.6
20°	416.2	416.2	416.2	420.3	419.3
22.5°	407.8	407.8	408.9	413.0	412.0
25°	399.5	398.4	399.5	403.7	404.7
27.5°	389.1	390.1	391.1	395.3	396.4
30°	378.6	379.7	380.7	385.9	387.0
32.5°	366.1	368.2	370.3	376.5	376.5
35°	353.6	355.7	358.8	366.1	367.1
37.5°	340.0	342.1	346.3	354.6	356.7
40°	325.4	328.6	334.8	343.2	346.3
42.5°	310.8	315.0	322.3	331.7	335.9
45°	295.2	299.4	308.7	320.2	325.4
47.5°	278.5	283.7	295.2	309.8	314.0
50°	260.8	268.1	281.6	297.3	302.5
52.5°	243.0	251.4	268.1	284.7	290.0
55°	224.3	233.6	254.5	271.2	277.4
57.5°	205.5	215.9	239.9	257.6	263.9
60°	185.7	198.2	224.3	242.0	247.2
62.5°	165.8	180.4	208.6	226.3	230.5
65°	145.0	162.7	191.9	207.6	211.7
67.5°	125.2	146.0	175.2	186.7	186.7
70°	104.3	127.2	156.5	159.6	153.3
72.5°	83.4	109.5	135.6	124.1	118.9
75°	63.6	92.8	106.4	96.0	92.8
77.5°	48.0	75.1	75.1	68.8	66.8
80°	33.4	57.4	50.1	43.8	40.7
82.5°	21.9	32.3	26.1	20.9	17.7
85°	11.5	12.5	7.3	6.3	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)