

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: P307262

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CA125-W2A-U-4000K**

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: P307262
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-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 4000K 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: 1282.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

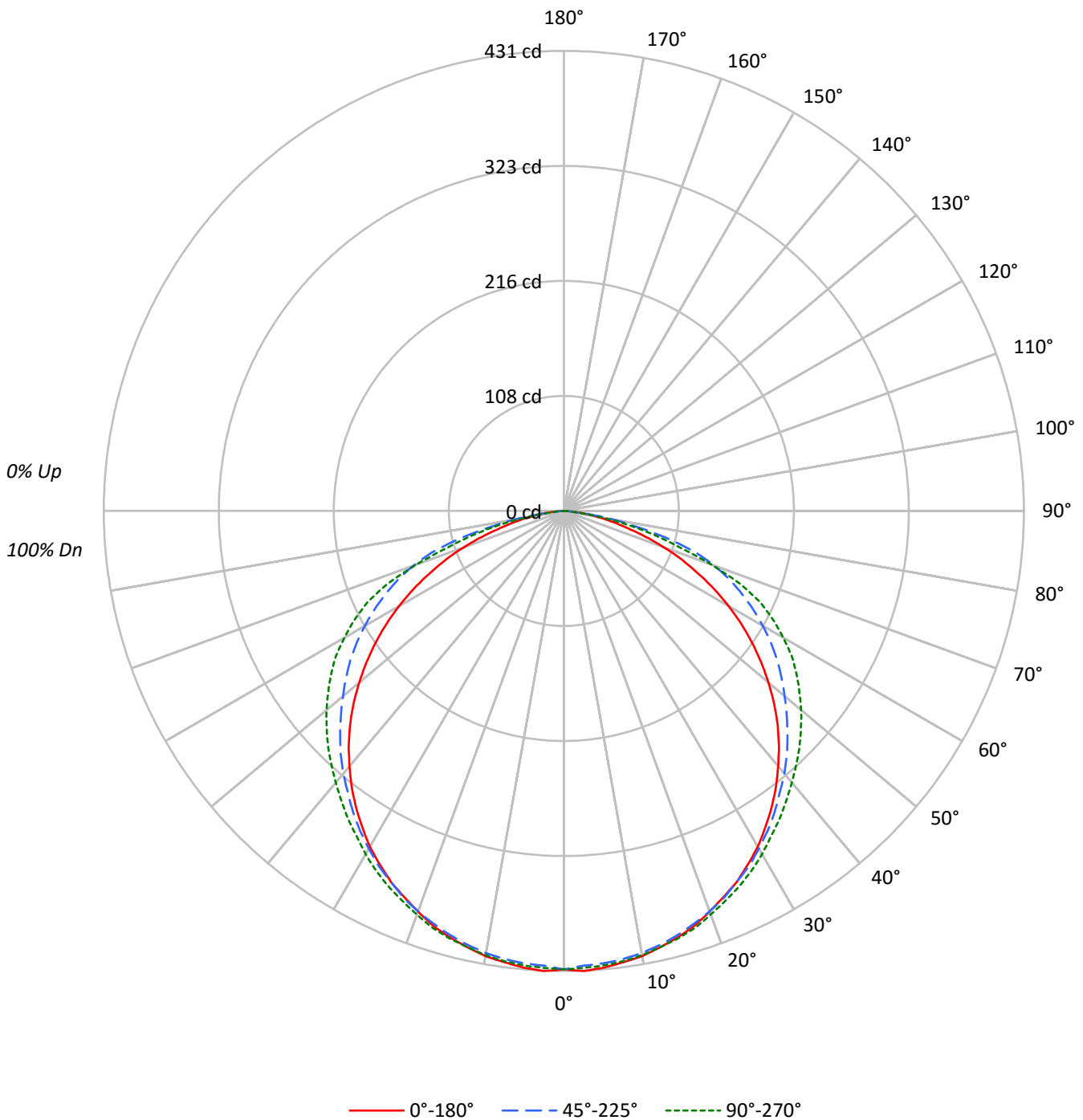
Input Watts (W): 16.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-20-UNV-L82765-RDP-CA125-W2A-U-4000K

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°	1156	1156	1156
5°	1160	1149	1155
10°	1157	1149	1154
15°	1152	1146	1154
20°	1143	1143	1152
25°	1138	1138	1153
30°	1129	1135	1154
35°	1115	1131	1157
40°	1097	1129	1167
45°	1078	1128	1188
50°	1047	1131	1215
55°	1010	1146	1249
60°	959	1158	1277
65°	886	1173	1294
70°	788	1181	1157
75°	635	1062	926
80°	496	744	604
85°	340	216	154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.2
10°-20°	116.6	9.1
20°-30°	177.5	13.8
30°-40°	216.2	16.9
40°-50°	229.4	17.9
50°-60°	216.5	16.9
60°-70°	174.8	13.6
70°-80°	94.8	7.4
80°-90°	15.3	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°	334.8	26.1
0°-40°	551.0	43.0
0°-60°	997.0	77.8
0°-90°	1282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	429	428	425	428	427	41
15°	413	412	411	414	414	117
25°	383	382	383	387	388	176
35°	339	341	344	351	352	212
45°	283	287	296	307	312	218
55°	215	224	244	260	266	192
65°	139	156	184	199	203	138
75°	61	89	102	92	89	67
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°	429.4	429.4	429.4	429.4	429.4
2.5°	431.4	429.4	426.4	429.4	428.4
5°	429.4	428.4	425.4	428.4	427.4
7.5°	426.4	426.4	423.4	425.4	425.4
10°	423.4	422.4	420.4	423.4	422.4
12.5°	418.4	417.4	416.4	419.4	418.4
15°	413.4	412.4	411.4	414.4	414.4
17.5°	407.4	406.4	405.4	409.4	409.4
20°	399.3	399.3	399.3	403.4	402.4
22.5°	391.3	391.3	392.3	396.3	395.3
25°	383.3	382.3	383.3	387.3	388.3
27.5°	373.3	374.3	375.3	379.3	380.3
30°	363.3	364.3	365.3	370.3	371.3
32.5°	351.3	353.3	355.3	361.3	361.3
35°	339.3	341.3	344.3	351.3	352.3
37.5°	326.3	328.3	332.3	340.3	342.3
40°	312.3	315.3	321.3	329.3	332.3
42.5°	298.3	302.3	309.3	318.3	322.3
45°	283.2	287.3	296.3	307.3	312.3
47.5°	267.2	272.2	283.2	297.3	301.3
50°	250.2	257.2	270.2	285.2	290.3
52.5°	233.2	241.2	257.2	273.2	278.2
55°	215.2	224.2	244.2	260.2	266.2
57.5°	197.2	207.2	230.2	247.2	253.2
60°	178.2	190.2	215.2	232.2	237.2
62.5°	159.1	173.2	200.2	217.2	221.2
65°	139.1	156.1	184.2	199.2	203.2
67.5°	120.1	140.1	168.1	179.2	179.2
70°	100.1	122.1	150.1	153.1	147.1
72.5°	80.1	105.1	130.1	119.1	114.1
75°	61.1	89.1	102.1	92.1	89.1
77.5°	46.0	72.1	72.1	66.1	64.1
80°	32.0	55.0	48.0	42.0	39.0
82.5°	21.0	31.0	25.0	20.0	17.0
85°	11.0	12.0	7.0	6.0	5.0
87.5°	4.0	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)