

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: P307850

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-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: P307850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 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: 2454.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

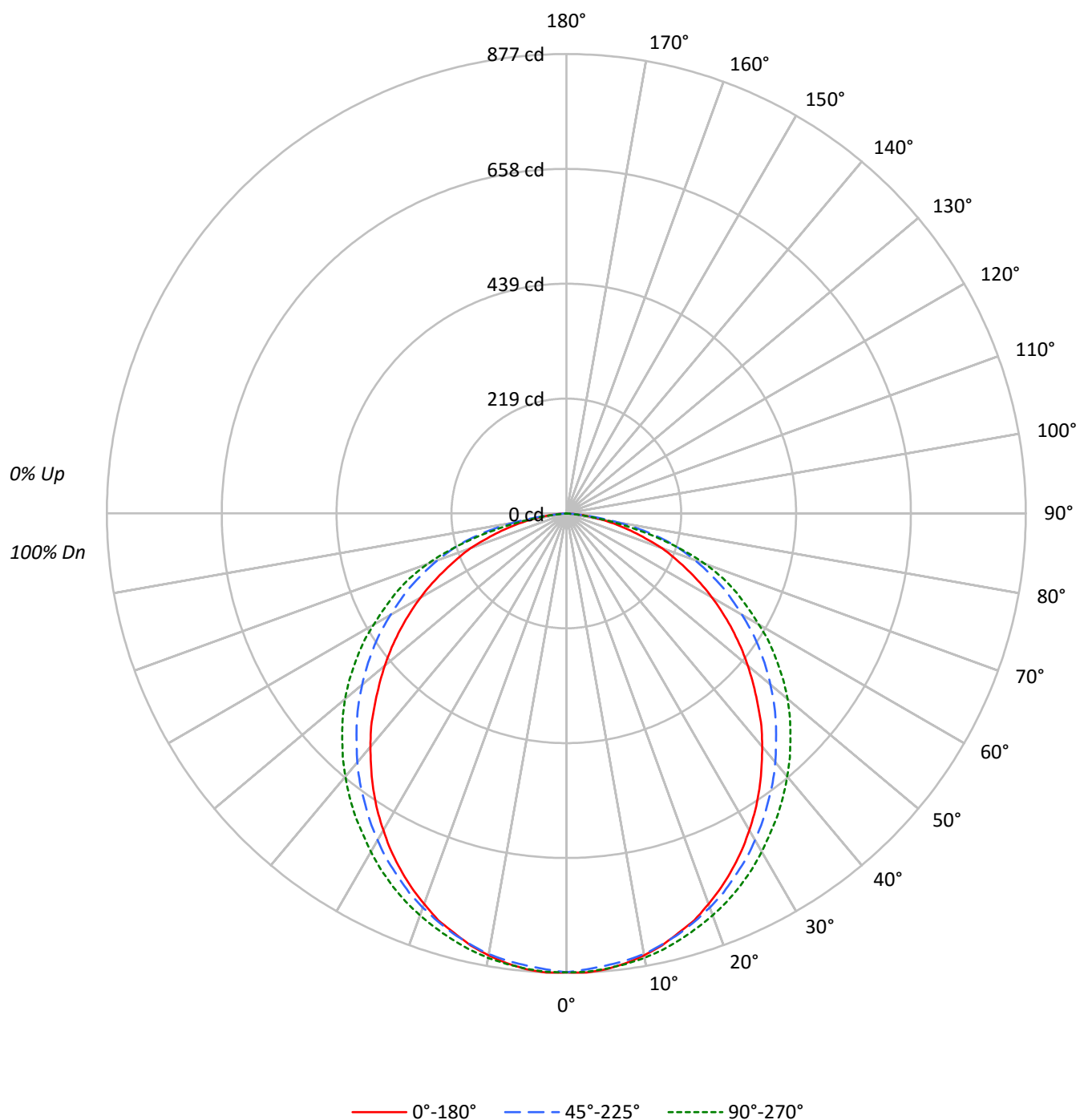
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307850

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CA125-W2A-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P307850

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CA125-W2A-U-5500K

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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2360	2340	2357
10°	2341	2334	2354
15°	2308	2315	2346
20°	2272	2293	2338
25°	2225	2265	2330
30°	2170	2238	2317
35°	2110	2206	2310
40°	2043	2180	2304
45°	1968	2153	2301
50°	1895	2129	2308
55°	1815	2112	2300
60°	1729	2082	2285
65°	1627	2076	2285
70°	1532	2058	2221
75°	1329	2012	1897
80°	1075	1621	1263
85°	713	565	377



TEST NUMBER: P307850

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CA125-W2A-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.4
10°-20°	235.4	9.6
20°-30°	353.1	14.4
30°-40°	421.2	17.2
40°-50°	435.5	17.7
50°-60°	397.6	16.2
60°-70°	312.9	12.7
70°-80°	182.1	7.4
80°-90°	33.6	1.4
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°	671.2	27.4
0°-40°	1092.4	44.5
0°-60°	1925.4	78.5
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	874	871	866	874	872	83
15°	829	830	831	842	842	234
25°	750	753	763	781	785	345
35°	642	651	672	697	703	402
45°	517	534	566	597	605	399
55°	387	408	450	483	490	346
65°	256	282	326	352	359	254
75°	128	158	194	190	182	136
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



TEST NUMBER: P307850

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CA125-W2A-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.0	876.0	876.0	876.0	876.0
2.5°	877.3	874.8	871.2	877.3	876.0
5°	873.6	871.2	866.3	873.6	872.4
7.5°	866.3	863.9	861.4	868.7	867.5
10°	856.6	855.4	854.1	862.7	861.4
12.5°	844.4	844.4	843.2	852.9	852.9
15°	828.6	829.8	831.0	842.0	842.0
17.5°	814.0	812.8	816.4	828.6	829.8
20°	793.3	795.7	800.6	815.2	816.4
22.5°	772.6	775.0	783.6	798.2	801.8
25°	749.5	753.1	762.9	781.1	784.8
27.5°	725.2	730.0	743.4	762.9	766.5
30°	698.4	705.7	720.3	742.2	745.8
32.5°	671.6	678.9	697.2	719.1	723.9
35°	642.4	650.9	671.6	697.2	703.3
37.5°	612.0	623.0	647.3	672.8	680.1
40°	581.6	593.8	620.5	647.3	655.8
42.5°	551.2	563.3	592.5	623.0	631.5
45°	517.1	534.1	565.8	597.4	604.7
47.5°	484.3	502.5	537.8	569.4	579.2
50°	452.6	470.9	508.6	541.4	551.2
52.5°	419.8	439.2	479.4	513.5	522.0
55°	386.9	407.6	450.2	483.0	490.3
57.5°	354.1	376.0	419.8	451.4	459.9
60°	321.2	344.3	386.9	418.6	424.6
62.5°	288.4	312.7	356.5	384.5	390.6
65°	255.5	282.3	326.1	351.6	358.9
67.5°	223.9	250.6	293.2	317.6	323.6
70°	194.7	219.0	261.6	279.8	282.3
72.5°	158.2	188.6	230.0	239.7	233.6
75°	127.8	158.2	193.5	189.8	182.5
77.5°	97.3	127.8	150.9	138.7	129.0
80°	69.4	99.8	104.6	86.4	81.5
82.5°	45.0	69.4	58.4	45.0	36.5
85°	23.1	32.9	18.3	14.6	12.2
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)