

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: P307875

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP250-W2A-U-4500K**

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: P307875
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-CP250-W2A-U-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB SHEET
Light Source: (168) 4500K 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: 2233.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

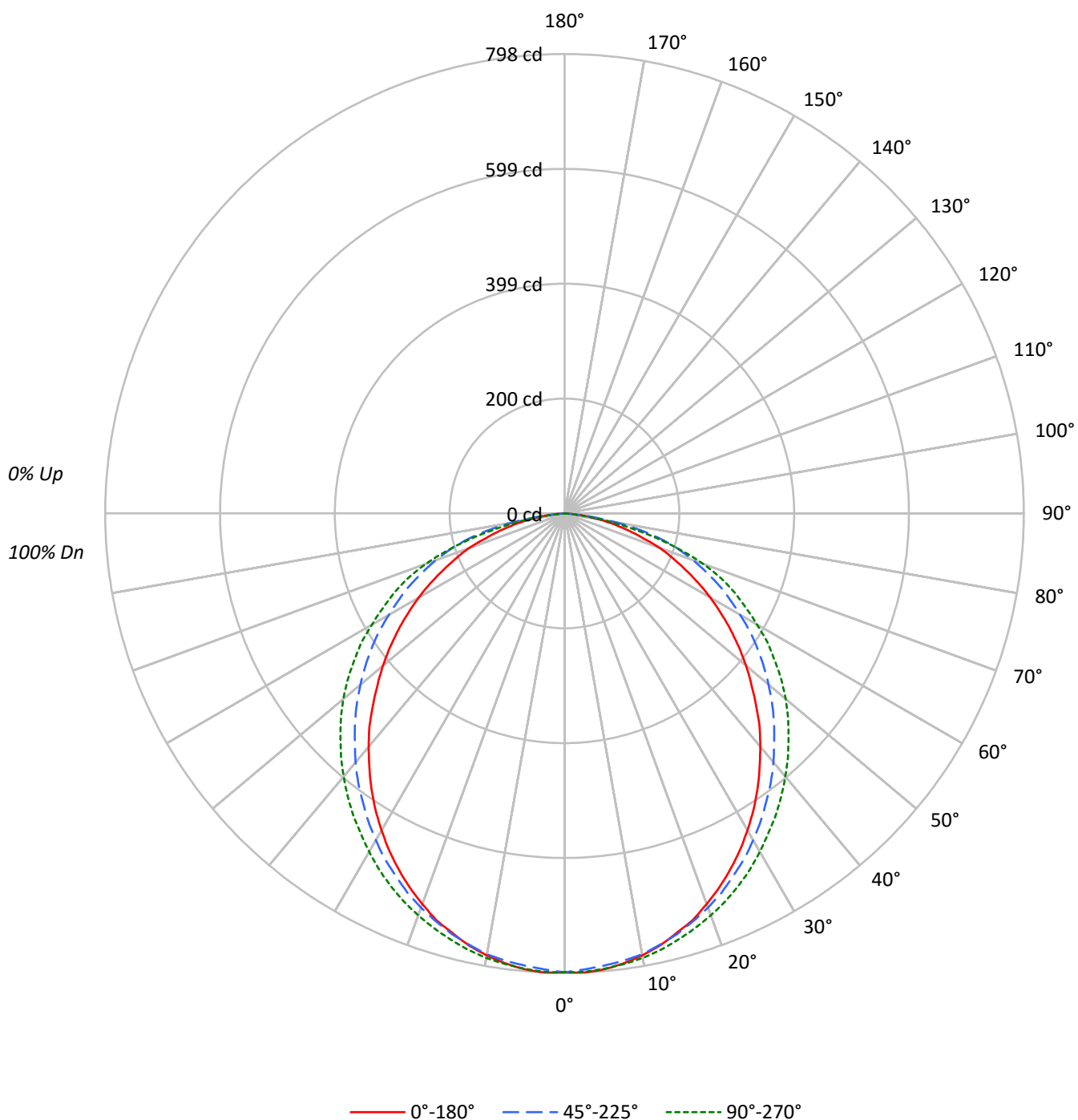
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307875

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP250-W2A-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P307875

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP250-W2A-U-4500K

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°	2145	2145	2145
5°	2147	2129	2144
10°	2130	2124	2142
15°	2101	2107	2134
20°	2067	2086	2127
25°	2025	2061	2120
30°	1975	2037	2109
35°	1920	2008	2102
40°	1859	1983	2096
45°	1791	1959	2094
50°	1724	1937	2099
55°	1652	1922	2093
60°	1573	1895	2080
65°	1480	1889	2080
70°	1393	1873	2021
75°	1209	1830	1727
80°	978	1475	1150
85°	648	513	343



TEST NUMBER: P307875

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP250-W2A-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.4
10°-20°	214.2	9.6
20°-30°	321.3	14.4
30°-40°	383.3	17.2
40°-50°	396.2	17.7
50°-60°	361.8	16.2
60°-70°	284.7	12.7
70°-80°	165.7	7.4
80°-90°	30.5	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°	610.8	27.4
0°-40°	994.1	44.5
0°-60°	1752.1	78.5
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	795	793	788	795	794	75
15°	754	755	756	766	766	213
25°	682	685	694	711	714	314
35°	585	592	611	634	640	365
45°	470	486	515	544	550	363
55°	352	371	410	440	446	315
65°	232	257	297	320	327	231
75°	116	144	176	173	166	124
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



TEST NUMBER: P307875

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-S-CP250-W2A-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.1	797.1	797.1	797.1	797.1
2.5°	798.3	796.0	792.7	798.3	797.1
5°	794.9	792.7	788.3	794.9	793.8
7.5°	788.3	786.1	783.9	790.5	789.4
10°	779.4	778.3	777.2	785.0	783.9
12.5°	768.4	768.4	767.3	776.1	776.1
15°	754.0	755.1	756.2	766.1	766.1
17.5°	740.7	739.6	742.9	754.0	755.1
20°	721.9	724.1	728.5	741.8	742.9
22.5°	703.0	705.3	713.0	726.3	729.6
25°	682.0	685.3	694.2	710.8	714.1
27.5°	659.9	664.3	676.5	694.2	697.5
30°	635.5	642.1	655.4	675.4	678.7
32.5°	611.1	617.8	634.4	654.3	658.8
35°	584.6	592.3	611.1	634.4	639.9
37.5°	556.9	566.9	589.0	612.3	618.9
40°	529.2	540.3	564.6	589.0	596.8
42.5°	501.5	512.6	539.2	566.9	574.6
45°	470.5	486.0	514.8	543.6	550.3
47.5°	440.6	457.3	489.4	518.1	527.0
50°	411.9	428.5	462.8	492.7	501.5
52.5°	382.0	399.7	436.2	467.2	475.0
55°	352.1	370.9	409.6	439.5	446.2
57.5°	322.2	342.1	382.0	410.8	418.5
60°	292.3	313.3	352.1	380.9	386.4
62.5°	262.4	284.5	324.4	349.9	355.4
65°	232.5	256.9	296.7	320.0	326.6
67.5°	203.7	228.1	266.8	289.0	294.5
70°	177.1	199.3	238.0	254.6	256.9
72.5°	143.9	171.6	209.3	218.1	212.6
75°	116.3	143.9	176.0	172.7	166.1
77.5°	88.6	116.3	137.3	126.2	117.4
80°	63.1	90.8	95.2	78.6	74.2
82.5°	41.0	63.1	53.1	41.0	33.2
85°	21.0	29.9	16.6	13.3	11.1
87.5°	6.6	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)