

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: P307484

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-2700K**

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: P307484
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: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 2700K 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: 2439.0 lumens
Efficiency: N/A
Efficacy: 63.7 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

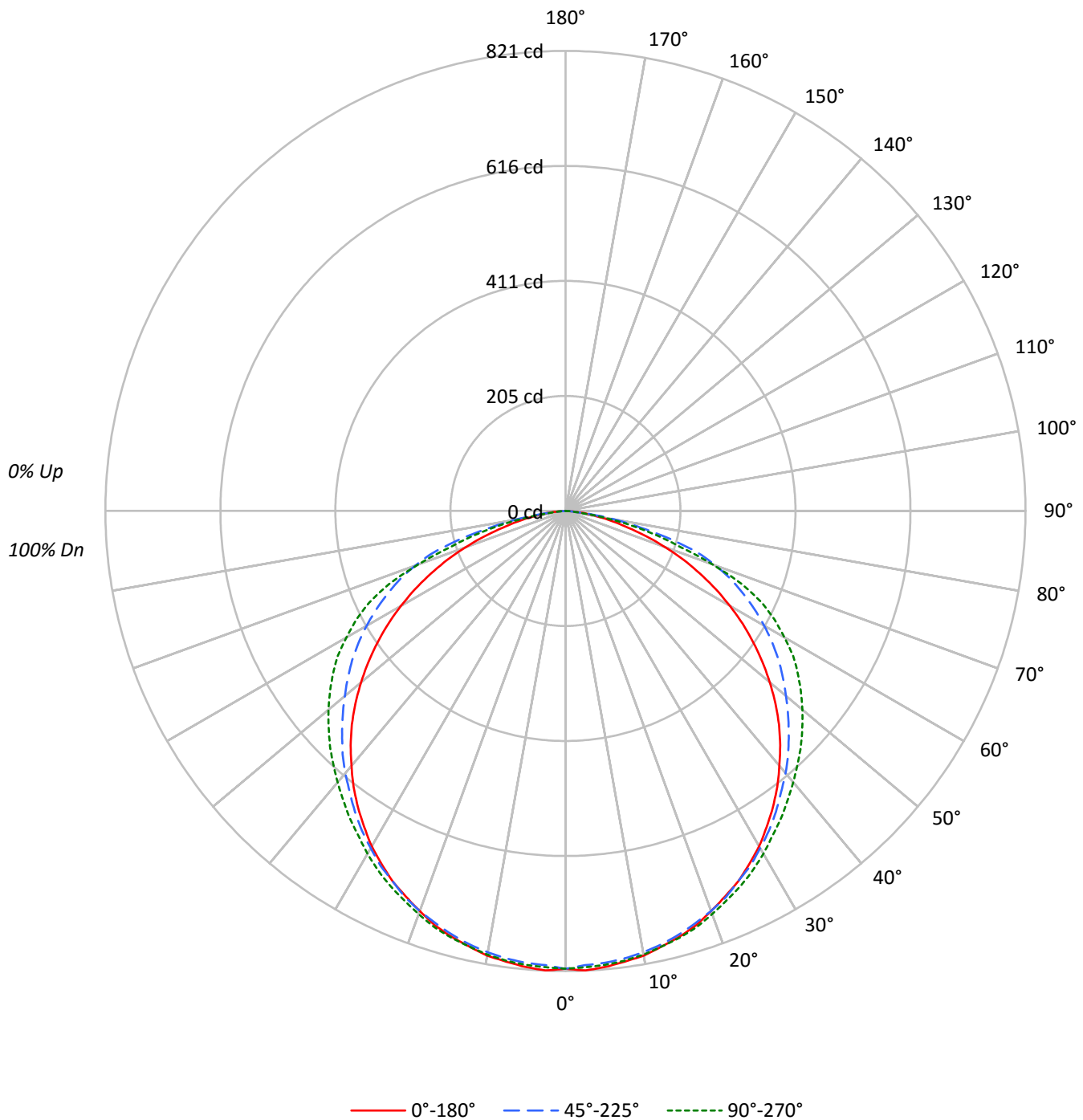
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2198	2198	2198
5°	2207	2186	2196
10°	2201	2185	2196
15°	2191	2180	2196
20°	2176	2176	2192
25°	2165	2165	2194
30°	2148	2160	2195
35°	2121	2152	2202
40°	2087	2147	2221
45°	2051	2145	2261
50°	1993	2152	2312
55°	1921	2180	2376
60°	1824	2203	2429
65°	1685	2231	2461
70°	1498	2247	2202
75°	1208	2019	1762
80°	944	1416	1151
85°	645	411	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.2
10°-20°	221.8	9.1
20°-30°	337.8	13.8
30°-40°	411.4	16.9
40°-50°	436.5	17.9
50°-60°	412.0	16.9
60°-70°	332.6	13.6
70°-80°	180.4	7.4
80°-90°	29.2	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°	636.9	26.1
0°-40°	1048.3	43.0
0°-60°	1896.8	77.8
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	815	809	815	813	78
15°	786	784	783	788	788	222
25°	729	727	729	737	739	336
35°	646	649	655	668	670	404
45°	539	546	564	585	594	415
55°	409	426	465	495	506	366
65°	265	297	350	379	386	262
75°	116	170	194	175	170	127
85°	21	23	13	11	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.9	816.9	816.9	816.9	816.9
2.5°	820.7	816.9	811.2	816.9	815.0
5°	816.9	815.0	809.3	815.0	813.1
7.5°	811.2	811.2	805.5	809.3	809.3
10°	805.5	803.6	799.7	805.5	803.6
12.5°	795.9	794.0	792.1	797.8	795.9
15°	786.4	784.5	782.6	788.3	788.3
17.5°	775.0	773.1	771.2	778.8	778.8
20°	759.8	759.8	759.8	767.4	765.5
22.5°	744.5	744.5	746.4	754.0	752.1
25°	729.3	727.4	729.3	736.9	738.8
27.5°	710.3	712.2	714.1	721.7	723.6
30°	691.2	693.1	695.0	704.5	706.4
32.5°	668.4	672.2	676.0	687.4	687.4
35°	645.5	649.3	655.0	668.4	670.3
37.5°	620.8	624.6	632.2	647.4	651.2
40°	594.1	599.8	611.2	626.5	632.2
42.5°	567.4	575.1	588.4	605.5	613.1
45°	538.9	546.5	563.6	584.6	594.1
47.5°	508.4	517.9	538.9	565.5	573.2
50°	476.0	489.4	514.1	542.7	552.2
52.5°	443.7	458.9	489.4	519.8	529.4
55°	409.4	426.5	464.6	495.1	506.5
57.5°	375.1	394.2	438.0	470.3	481.8
60°	338.9	361.8	409.4	441.8	451.3
62.5°	302.8	329.4	380.8	413.2	420.8
65°	264.7	297.0	350.4	378.9	386.5
67.5°	228.5	266.6	319.9	340.8	340.8
70°	190.4	232.3	285.6	291.3	279.9
72.5°	152.3	199.9	247.5	226.6	217.1
75°	116.2	169.5	194.2	175.2	169.5
77.5°	87.6	137.1	137.1	125.7	121.9
80°	60.9	104.7	91.4	80.0	74.3
82.5°	40.0	59.0	47.6	38.1	32.4
85°	20.9	22.8	13.3	11.4	9.5
87.5°	7.6	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)