

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: P308482

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-RDP-CA125-W2A-U-6500K**

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: P308482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22FCZ2-34HE-UNV-L82765-RDP-CA125-W2A-U-6500K
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS WITH INSERT, 0.125" ACRYLIC SHEET
Light Source: (168) 3000K 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: 2158.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

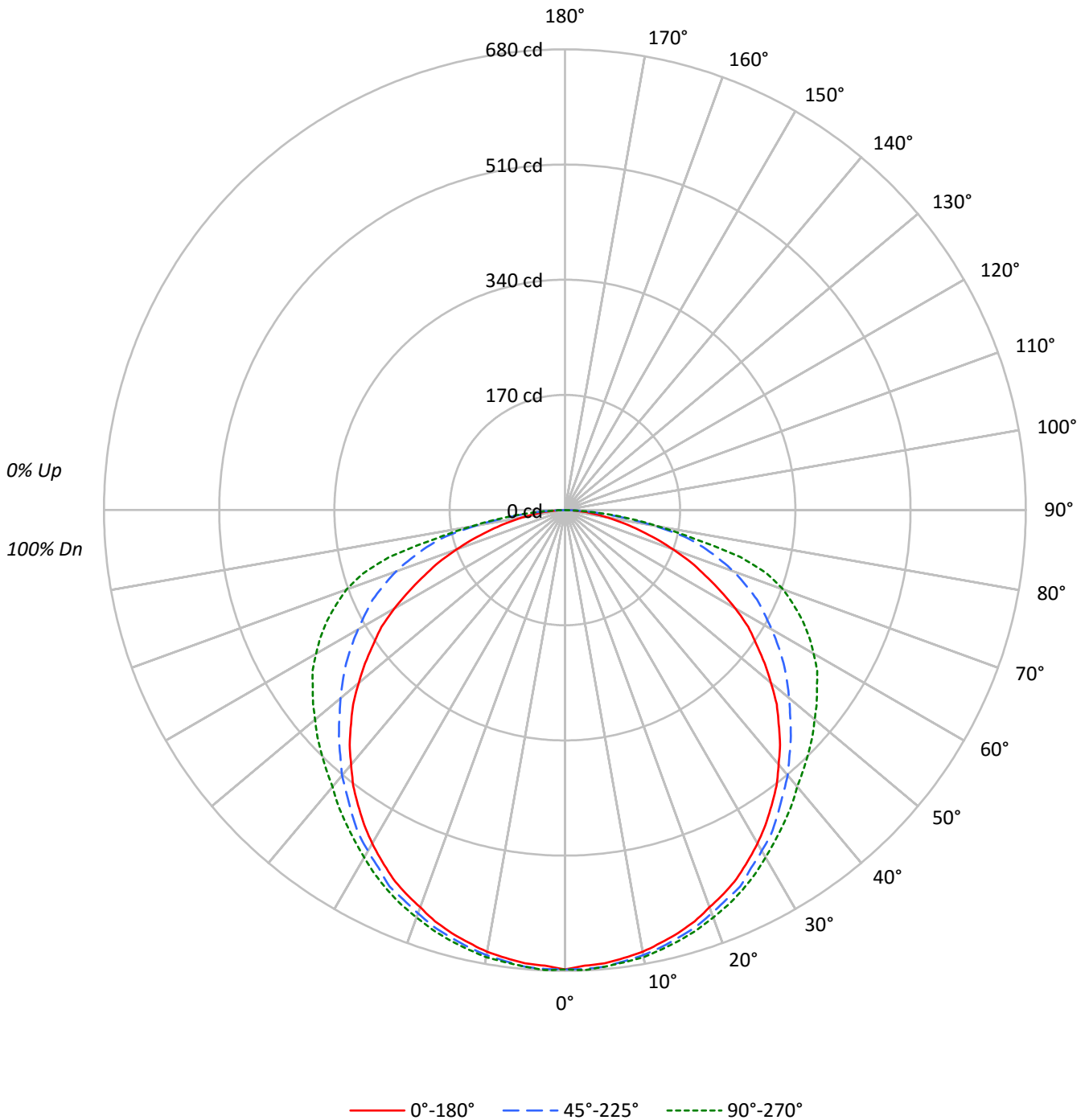
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1824	1824	1824
5°	1814	1827	1827
10°	1809	1822	1830
15°	1800	1818	1831
20°	1787	1814	1832
25°	1782	1820	1838
30°	1766	1805	1840
35°	1747	1799	1851
40°	1723	1796	1874
45°	1698	1794	1933
50°	1662	1808	2014
55°	1616	1847	2130
60°	1563	1897	2281
65°	1456	1991	2467
70°	1337	2086	2698
75°	1172	2195	2790
80°	1009	2091	2190
85°	883	1519	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.0
10°-20°	184.1	8.5
20°-30°	280.9	13.0
30°-40°	343.0	15.9
40°-50°	366.7	17.0
50°-60°	354.0	16.4
60°-70°	304.7	14.1
70°-80°	206.1	9.6
80°-90°	54.4	2.5
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°	529.1	24.5
0°-40°	872.1	40.4
0°-60°	1592.8	73.8
0°-90°	2158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	672	673	676	676	676	64
15°	646	648	652	656	657	182
25°	600	603	613	616	619	276
35°	532	537	548	559	564	333
45°	446	454	472	495	508	344
55°	344	356	394	433	454	309
65°	229	251	313	362	387	227
75°	113	149	211	254	268	121
85°	29	40	49	51	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.9	677.9	677.9	677.9	677.9
2.5°	673.1	674.7	677.9	677.9	679.5
5°	671.5	673.1	676.3	676.3	676.3
7.5°	666.8	668.3	671.5	673.1	673.1
10°	662.0	663.6	666.8	668.3	669.9
12.5°	654.1	655.6	660.4	663.6	663.6
15°	646.1	647.7	652.5	655.6	657.2
17.5°	636.6	639.8	644.5	647.7	649.3
20°	623.9	627.1	633.4	638.2	639.8
22.5°	612.8	616.0	622.3	627.1	630.2
25°	600.1	603.3	612.8	616.0	619.1
27.5°	584.2	587.4	595.3	601.7	606.4
30°	568.3	571.5	581.0	589.0	592.1
32.5°	550.9	555.6	566.7	573.1	577.9
35°	531.8	536.6	547.7	558.8	563.6
37.5°	512.8	517.5	528.6	542.9	549.3
40°	490.5	496.9	511.2	530.2	533.4
42.5°	469.9	477.8	490.5	512.8	520.7
45°	446.1	454.0	471.5	495.3	508.0
47.5°	423.9	431.8	450.9	479.4	495.3
50°	396.9	408.0	431.8	465.1	481.0
52.5°	371.5	381.0	412.8	449.3	468.3
55°	344.5	355.6	393.7	433.4	454.0
57.5°	320.7	330.2	373.1	417.5	441.3
60°	290.5	303.2	352.4	400.1	423.9
62.5°	258.8	277.8	331.8	381.0	406.4
65°	228.6	250.8	312.7	362.0	387.4
67.5°	201.6	225.4	288.9	341.3	365.1
70°	169.9	200.0	265.1	315.9	342.9
72.5°	141.3	174.6	238.1	288.9	312.7
75°	112.7	149.2	211.1	254.0	268.3
77.5°	87.3	122.2	181.0	193.7	195.3
80°	65.1	96.8	134.9	136.5	141.3
82.5°	44.5	68.3	87.3	95.3	96.8
85°	28.6	39.7	49.2	50.8	54.0
87.5°	12.7	14.3	17.5	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)