

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: P308215

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-HRP-CP125-W2A-U-3500K**

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: P308215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-22)
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-HRP-CP125-W2A-U-3500K
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB 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: 2294.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

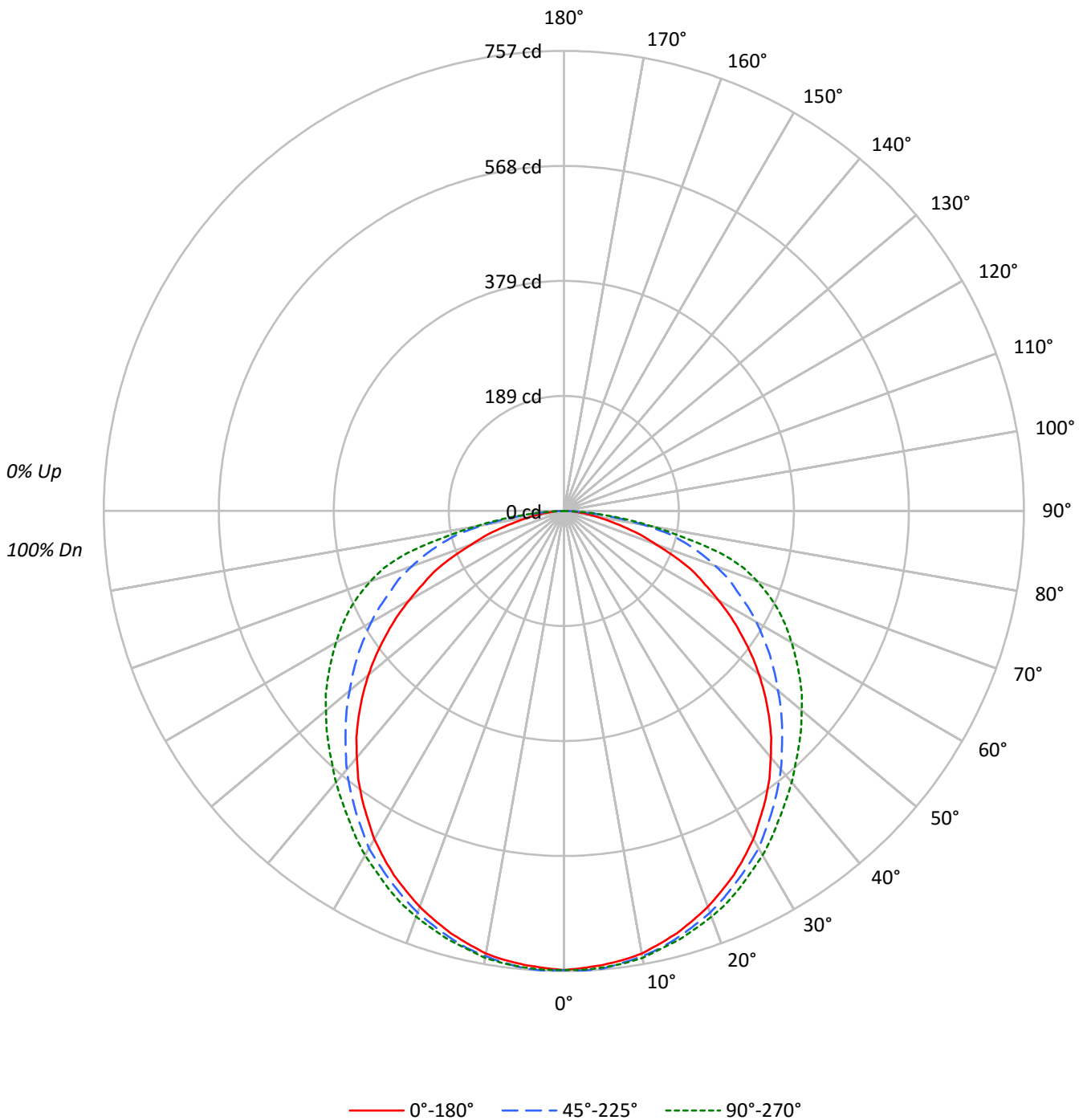
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2033	2033	2033
5°	2025	2041	2036
10°	2021	2032	2040
15°	2004	2024	2036
20°	1985	2014	2035
25°	1964	1998	2032
30°	1938	1992	2032
35°	1901	1968	2030
40°	1860	1952	2049
45°	1817	1933	2082
50°	1757	1927	2138
55°	1677	1942	2220
60°	1581	1970	2329
65°	1493	2009	2488
70°	1275	2095	2664
75°	1068	2181	2769
80°	874	2108	2311
85°	760	1562	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.1
10°-20°	204.8	8.9
20°-30°	310.4	13.5
30°-40°	374.8	16.3
40°-50°	393.8	17.2
50°-60°	370.5	16.2
60°-70°	308.9	13.5
70°-80°	204.7	8.9
80°-90°	54.6	2.4
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°	586.8	25.6
0°-40°	961.5	41.9
0°-60°	1725.8	75.2
0°-90°	2294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	750	751	755	755	754	71
15°	719	722	726	729	731	203
25°	661	666	673	682	684	304
35°	579	585	599	612	618	362
45°	478	485	508	534	547	368
55°	357	373	414	456	473	320
65°	234	255	316	368	391	228
75°	103	143	210	253	266	112
85°	25	38	51	55	55	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.4	755.4	755.4	755.4	755.4
2.5°	752.5	753.9	756.8	756.8	755.4
5°	749.6	751.0	755.4	755.4	753.9
7.5°	745.3	746.7	749.6	752.5	751.0
10°	739.5	740.9	743.8	746.7	746.7
12.5°	729.3	730.8	736.6	738.0	738.0
15°	719.2	722.1	726.4	729.3	730.8
17.5°	706.2	709.1	714.9	720.7	720.7
20°	693.2	696.1	703.3	709.1	710.5
22.5°	677.2	681.6	688.8	696.1	699.0
25°	661.3	665.7	672.9	681.6	684.5
27.5°	642.5	646.9	657.0	667.1	668.6
30°	623.7	628.0	641.1	649.7	654.1
32.5°	600.5	606.3	619.4	632.4	636.7
35°	578.8	584.6	599.1	612.1	617.9
37.5°	555.7	561.5	577.4	593.3	600.5
40°	529.6	536.9	555.7	573.1	583.2
42.5°	505.0	512.3	531.1	554.2	564.4
45°	477.5	484.8	507.9	534.0	547.0
47.5°	448.6	457.3	484.8	516.6	529.6
50°	419.7	429.8	460.2	496.4	510.8
52.5°	389.3	402.3	437.0	476.1	493.5
55°	357.4	373.4	413.9	455.8	473.2
57.5°	327.0	341.5	389.3	434.1	452.9
60°	293.8	312.6	366.1	412.4	432.7
62.5°	261.9	282.2	341.5	390.7	412.4
65°	234.4	254.7	315.5	367.6	390.7
67.5°	198.3	225.7	293.8	343.0	366.1
70°	162.1	199.7	266.3	316.9	338.6
72.5°	134.6	170.8	238.8	289.4	309.7
75°	102.7	143.3	209.8	253.2	266.3
77.5°	76.7	118.7	179.4	201.1	202.6
80°	56.4	91.2	136.0	143.3	149.1
82.5°	39.1	63.7	88.3	97.0	99.9
85°	24.6	37.6	50.6	55.0	55.0
87.5°	13.0	14.5	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)