

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: P308219

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-HRP-CP125-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: P308219
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-5500K
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: 2443.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

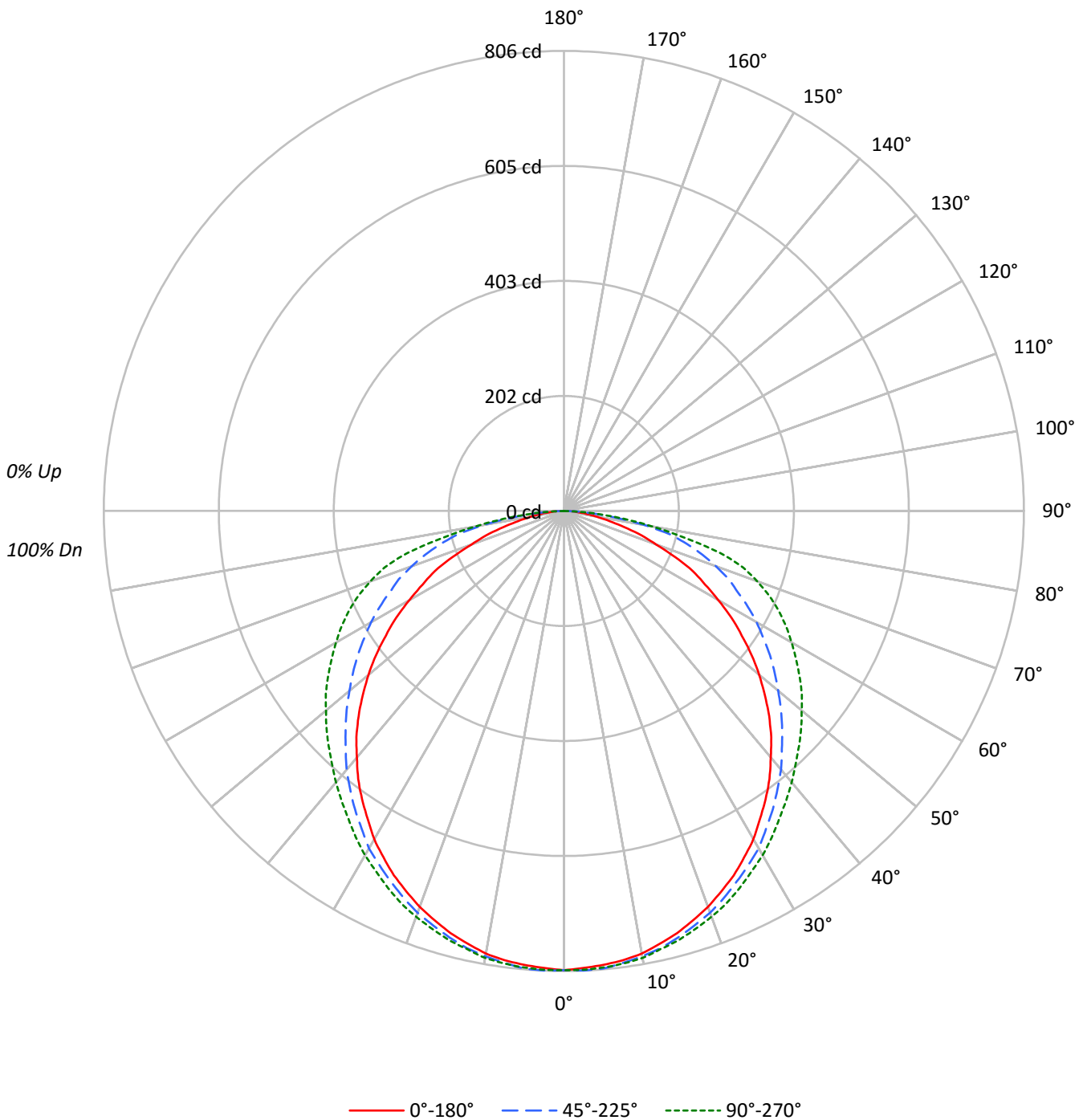
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2165	2165	2165
5°	2156	2173	2169
10°	2152	2164	2173
15°	2134	2155	2168
20°	2114	2145	2167
25°	2091	2128	2164
30°	2064	2121	2165
35°	2025	2096	2162
40°	1981	2079	2182
45°	1936	2058	2217
50°	1871	2052	2277
55°	1786	2068	2364
60°	1683	2098	2480
65°	1590	2139	2649
70°	1358	2231	2837
75°	1137	2324	2949
80°	931	2245	2459
85°	809	1664	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.1
10°-20°	218.1	8.9
20°-30°	330.5	13.5
30°-40°	399.1	16.3
40°-50°	419.4	17.2
50°-60°	394.6	16.2
60°-70°	329.0	13.5
70°-80°	218.0	8.9
80°-90°	58.1	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°	624.9	25.6
0°-40°	1024.0	41.9
0°-60°	1837.9	75.2
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	798	800	804	804	803	76
15°	766	769	774	777	778	216
25°	704	709	717	726	729	324
35°	616	623	638	652	658	385
45°	509	516	541	569	582	392
55°	381	398	441	485	504	341
65°	250	271	336	391	416	243
75°	109	153	224	270	284	119
85°	26	40	54	59	59	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.5	804.5	804.5	804.5	804.5
2.5°	801.4	802.9	806.0	806.0	804.5
5°	798.3	799.8	804.5	804.5	802.9
7.5°	793.7	795.2	798.3	801.4	799.8
10°	787.5	789.0	792.1	795.2	795.2
12.5°	776.7	778.3	784.4	786.0	786.0
15°	765.9	769.0	773.6	776.7	778.3
17.5°	752.1	755.1	761.3	767.5	767.5
20°	738.2	741.3	749.0	755.1	756.7
22.5°	721.2	725.9	733.6	741.3	744.3
25°	704.3	708.9	716.6	725.9	728.9
27.5°	684.2	688.9	699.7	710.4	712.0
30°	664.2	668.8	682.7	692.0	696.6
32.5°	639.6	645.7	659.6	673.5	678.1
35°	616.4	622.6	638.0	651.9	658.0
37.5°	591.8	597.9	614.9	631.8	639.6
40°	564.0	571.7	591.8	610.3	621.1
42.5°	537.8	545.5	565.6	590.2	601.0
45°	508.6	516.3	540.9	568.7	582.5
47.5°	477.7	487.0	516.3	550.2	564.0
50°	446.9	457.7	490.1	528.6	544.0
52.5°	414.6	428.4	465.4	507.0	525.5
55°	380.7	397.6	440.8	485.4	503.9
57.5°	348.3	363.7	414.6	462.3	482.4
60°	312.8	332.9	389.9	439.2	460.8
62.5°	278.9	300.5	363.7	416.1	439.2
65°	249.7	271.2	336.0	391.4	416.1
67.5°	211.1	240.4	312.8	365.2	389.9
70°	172.6	212.7	283.6	337.5	360.6
72.5°	143.3	181.8	254.3	308.2	329.8
75°	109.4	152.6	223.5	269.7	283.6
77.5°	81.7	126.4	191.1	214.2	215.8
80°	60.1	97.1	144.9	152.6	158.7
82.5°	41.6	67.8	94.0	103.3	106.3
85°	26.2	40.1	53.9	58.6	58.6
87.5°	13.9	15.4	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)