

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: P308753

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-CP125-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: P308753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
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-CP125-W2A-U-2700K
Description: 2'X2' TROFFER LED MODULE, RIBBED 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: 2775.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

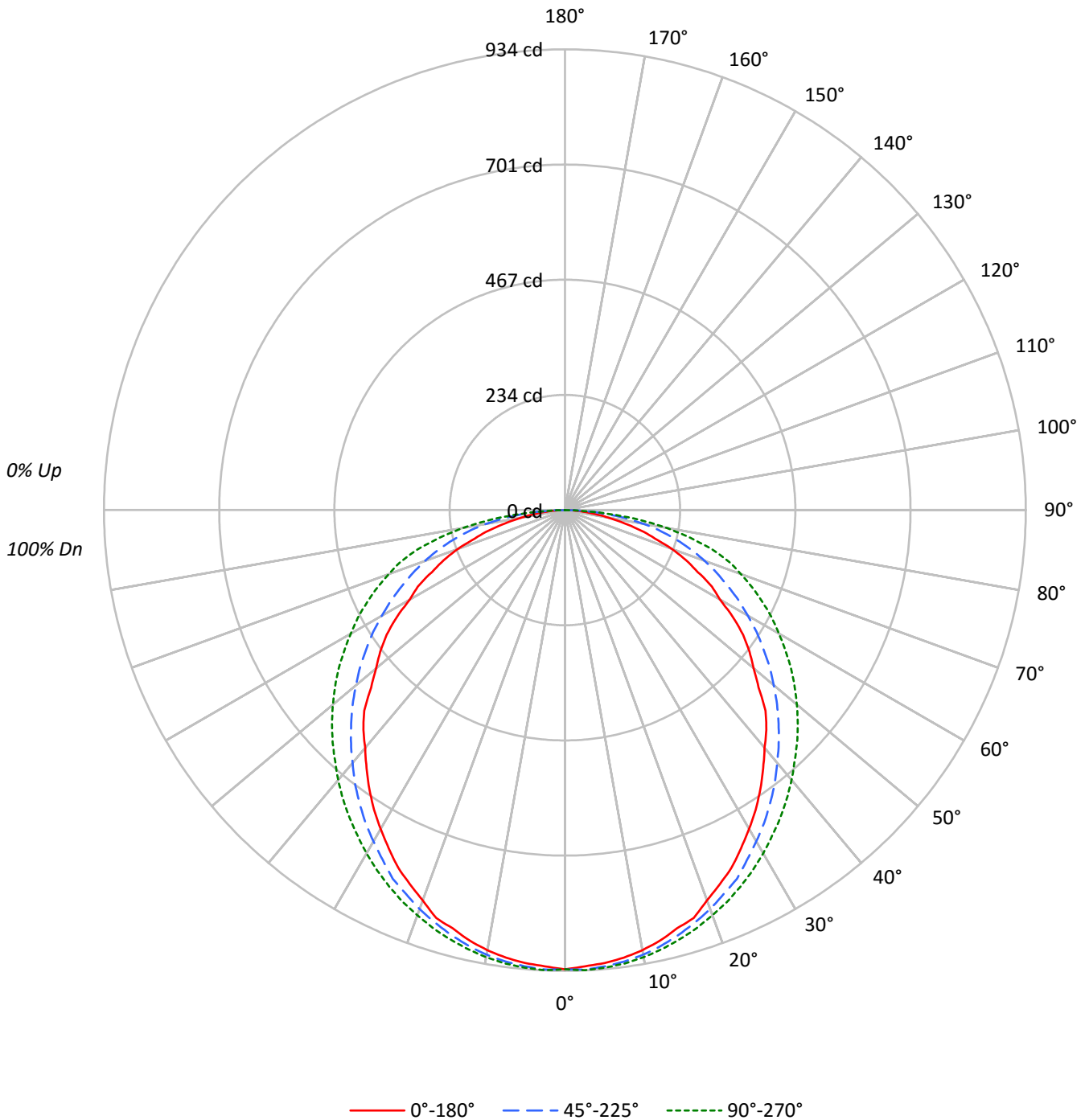
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	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	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
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	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2505	2505	2505
5°	2490	2508	2515
10°	2475	2501	2515
15°	2446	2483	2509
20°	2411	2464	2503
25°	2374	2449	2500
30°	2319	2410	2497
35°	2269	2382	2500
40°	2211	2351	2510
45°	2189	2330	2532
50°	2091	2313	2569
55°	2069	2305	2624
60°	1951	2302	2695
65°	1894	2317	2816
70°	1818	2372	2989
75°	1657	2444	3218
80°	1420	2532	3251
85°	1149	2421	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.2
10°-20°	251.3	9.1
20°-30°	378.2	13.6
30°-40°	454.0	16.4
40°-50°	474.5	17.1
50°-60°	442.2	15.9
60°-70°	362.7	13.1
70°-80°	244.4	8.8
80°-90°	79.6	2.9
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°	717.7	25.9
0°-40°	1171.6	42.2
0°-60°	2088.3	75.3
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	922	924	928	930	931	87
15°	878	883	891	899	900	248
25°	800	805	825	837	842	368
35°	691	700	725	750	761	432
45°	575	579	612	650	665	439
55°	441	449	491	538	559	391
65°	298	311	364	417	442	296
75°	159	177	235	288	310	168
85°	37	53	78	92	90	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	931.0	931.0	931.0	931.0	931.0
2.5°	925.7	928.4	932.4	933.7	933.7
5°	921.7	924.4	928.4	929.7	931.0
7.5°	915.1	917.8	923.1	925.7	927.1
10°	905.8	908.5	915.1	919.1	920.4
12.5°	893.8	896.5	904.5	909.8	911.1
15°	877.9	883.2	891.2	899.2	900.5
17.5°	867.3	866.0	876.6	885.9	888.5
20°	842.0	848.7	860.6	871.3	873.9
22.5°	820.8	826.1	842.0	854.0	859.3
25°	799.5	804.9	824.8	836.7	842.0
27.5°	773.0	781.0	799.5	816.8	823.5
30°	746.4	754.4	775.6	795.6	803.5
32.5°	719.9	729.2	751.7	773.0	782.3
35°	690.6	699.9	725.2	750.4	761.0
37.5°	660.1	672.0	698.6	726.5	738.5
40°	629.5	641.5	669.4	701.3	714.5
42.5°	604.3	609.6	641.5	676.0	689.3
45°	575.1	579.1	612.3	649.5	665.4
47.5°	532.6	547.2	583.1	624.2	640.2
50°	499.4	515.3	552.5	596.3	613.6
52.5°	471.5	482.1	523.3	567.1	587.0
55°	440.9	448.9	491.4	537.9	559.2
57.5°	403.8	418.4	460.9	508.7	529.9
60°	362.6	381.2	427.7	479.5	500.7
62.5°	336.0	346.6	397.1	448.9	472.8
65°	297.5	310.8	363.9	417.0	442.3
67.5°	265.6	278.9	333.4	386.5	411.7
70°	231.1	244.4	301.5	354.6	379.9
72.5°	191.3	209.8	269.6	322.7	349.3
75°	159.4	176.6	235.1	288.2	309.5
77.5°	123.5	146.1	200.6	244.4	260.3
80°	91.6	114.2	163.4	195.2	209.8
82.5°	62.4	85.0	122.2	146.1	154.1
85°	37.2	53.1	78.4	91.6	90.3
87.5°	17.3	22.6	31.9	31.9	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)