

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: P308565

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-3000K**

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: P308565
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: 22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-3000K
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: 2506.0 lumens
Efficiency: N/A
Efficacy: 67.9 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

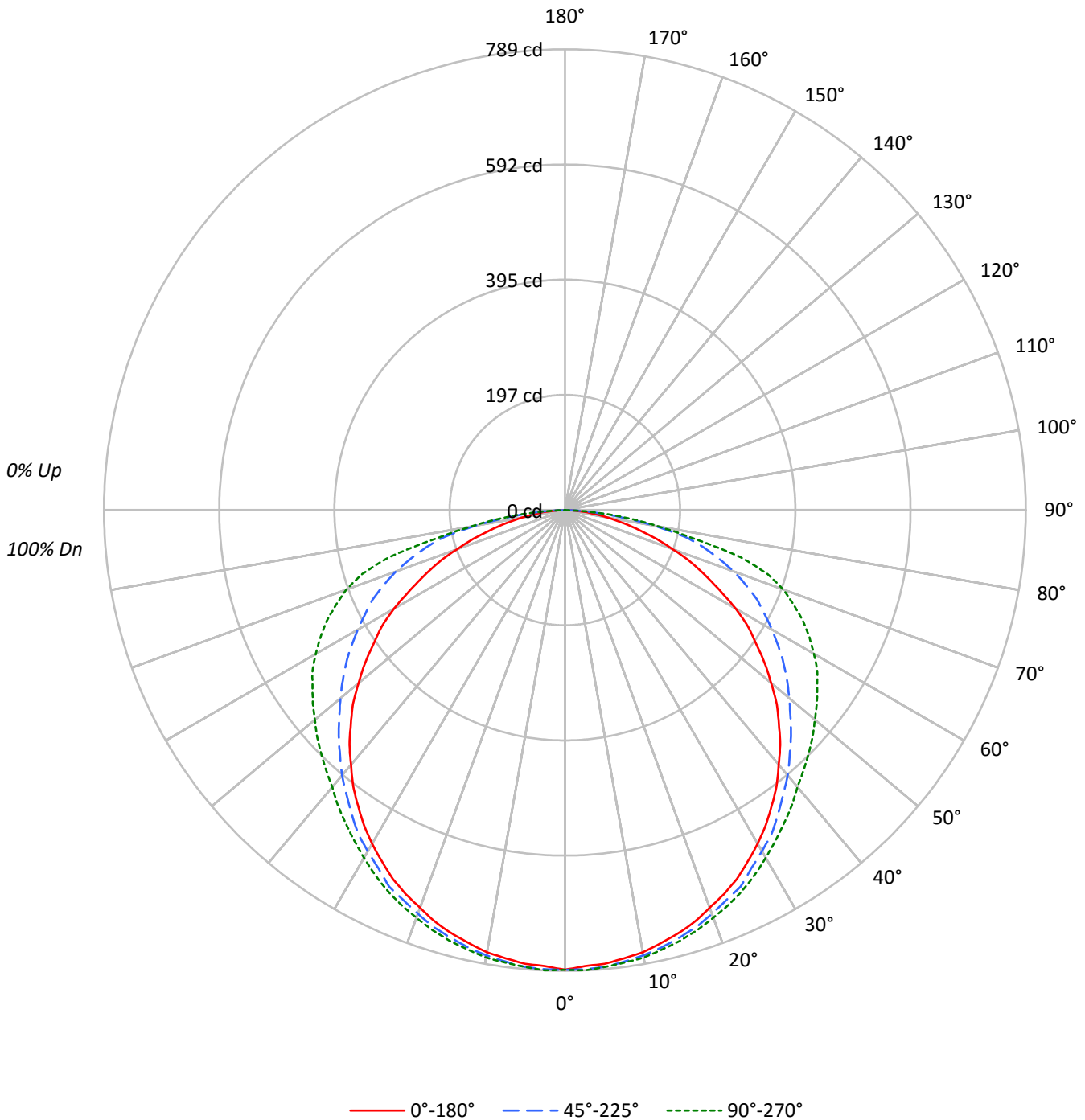
Input Watts (W): 36.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2118	2118	2118
5°	2106	2121	2121
10°	2100	2116	2126
15°	2090	2111	2126
20°	2075	2107	2127
25°	2069	2113	2135
30°	2051	2096	2137
35°	2029	2089	2150
40°	2001	2085	2176
45°	1971	2084	2245
50°	1930	2099	2339
55°	1877	2145	2473
60°	1816	2203	2649
65°	1691	2313	2864
70°	1552	2423	3133
75°	1361	2549	3240
80°	1172	2428	2543
85°	1025	1763	1936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.0
10°-20°	213.8	8.5
20°-30°	326.2	13.0
30°-40°	398.3	15.9
40°-50°	425.8	17.0
50°-60°	411.0	16.4
60°-70°	353.8	14.1
70°-80°	239.4	9.6
80°-90°	63.2	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°	614.4	24.5
0°-40°	1012.7	40.4
0°-60°	1849.6	73.8
0°-90°	2506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	780	782	785	785	785	74
15°	750	752	758	761	763	212
25°	697	700	712	715	719	321
35°	618	623	636	649	654	386
45°	518	527	548	575	590	400
55°	400	413	457	503	527	358
65°	266	291	363	420	450	264
75°	131	173	245	295	312	140
85°	33	46	57	59	63	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.2	787.2	787.2	787.2	787.2
2.5°	781.6	783.5	787.2	787.2	789.0
5°	779.8	781.6	785.3	785.3	785.3
7.5°	774.3	776.1	779.8	781.6	781.6
10°	768.7	770.6	774.3	776.1	778.0
12.5°	759.5	761.4	766.9	770.6	770.6
15°	750.3	752.2	757.7	761.4	763.2
17.5°	739.2	742.9	748.5	752.2	754.0
20°	724.5	728.2	735.6	741.1	742.9
22.5°	711.6	715.3	722.7	728.2	731.9
25°	696.8	700.5	711.6	715.3	719.0
27.5°	678.4	682.1	691.3	698.7	704.2
30°	660.0	663.7	674.7	683.9	687.6
32.5°	639.7	645.2	658.1	665.5	671.0
35°	617.6	623.1	636.0	648.9	654.4
37.5°	595.5	601.0	613.9	630.5	637.9
40°	569.6	577.0	593.6	615.7	619.4
42.5°	545.7	554.9	569.6	595.5	604.7
45°	518.0	527.2	547.5	575.2	589.9
47.5°	492.2	501.4	523.6	556.7	575.2
50°	460.9	473.8	501.4	540.1	558.6
52.5°	431.4	442.4	479.3	521.7	543.8
55°	400.0	412.9	457.2	503.3	527.2
57.5°	372.4	383.4	433.2	484.8	512.5
60°	337.4	352.1	409.3	464.6	492.2
62.5°	300.5	322.6	385.3	442.4	471.9
65°	265.5	291.3	363.2	420.3	449.8
67.5°	234.1	261.8	335.5	396.4	424.0
70°	197.3	232.3	307.9	366.9	398.2
72.5°	164.1	202.8	276.5	335.5	363.2
75°	130.9	173.3	245.2	295.0	311.6
77.5°	101.4	142.0	210.2	224.9	226.8
80°	75.6	112.5	156.7	158.5	164.1
82.5°	51.6	79.3	101.4	110.6	112.5
85°	33.2	46.1	57.1	59.0	62.7
87.5°	14.7	16.6	20.3	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)