

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: P308569

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CA125-W2A-U-5000K**

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: P308569  
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-5000K  
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**

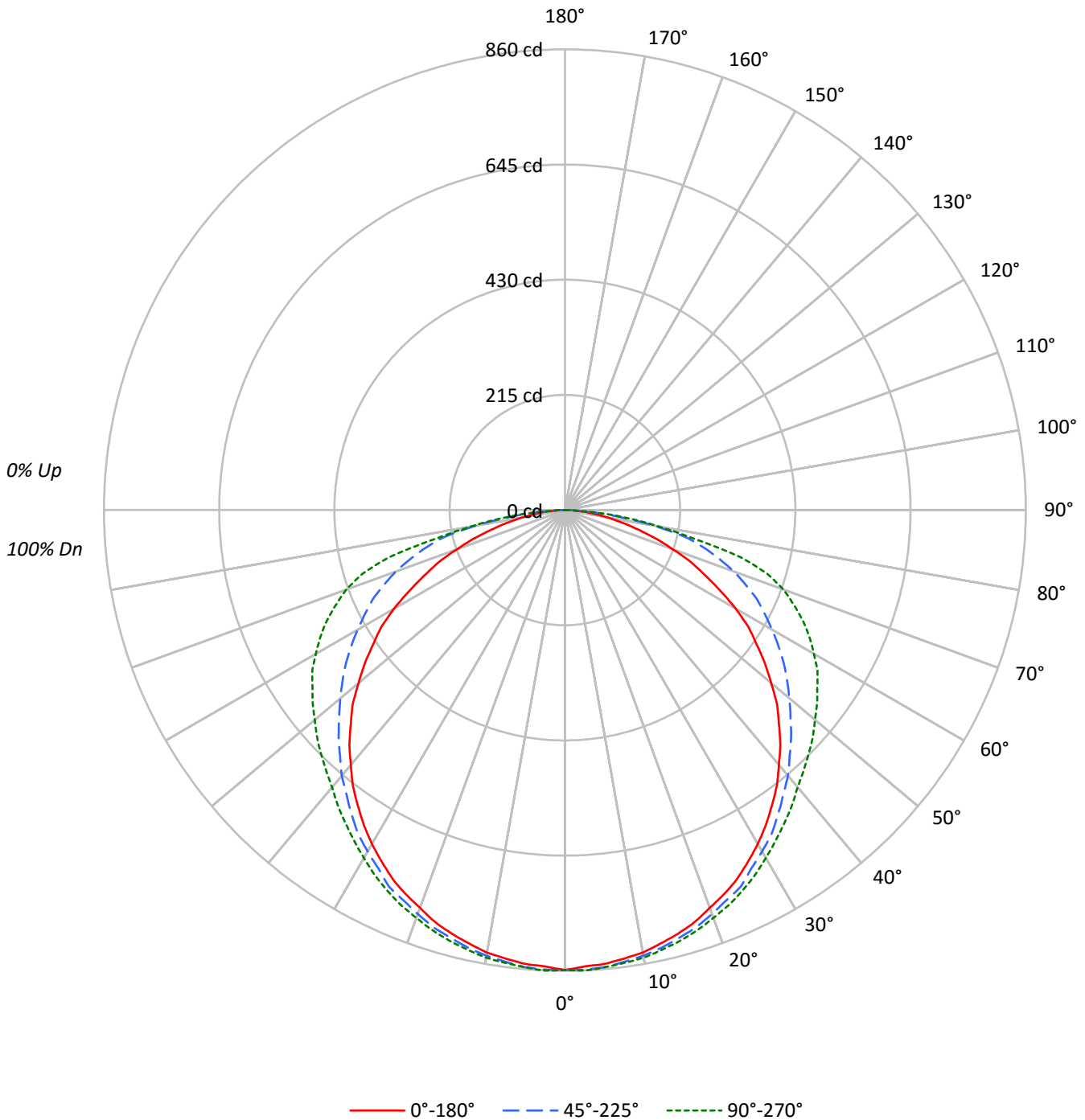
Lumens per Lamp: N/A  
Luminaire Lumens: 2733.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	2310	2310	2310
5°	2297	2314	2314
10°	2291	2307	2318
15°	2280	2302	2319
20°	2263	2297	2320
25°	2257	2304	2328
30°	2237	2286	2330
35°	2213	2279	2345
40°	2182	2274	2373
45°	2150	2272	2449
50°	2104	2290	2550
55°	2047	2339	2698
60°	1980	2402	2889
65°	1843	2522	3124
70°	1692	2642	3417
75°	1484	2780	3533
80°	1277	2648	2772
85°	1118	1924	2112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	3.0
10°-20°	233.2	8.5
20°-30°	355.7	13.0
30°-40°	434.3	15.9
40°-50°	464.4	17.0
50°-60°	448.3	16.4
60°-70°	385.9	14.1
70°-80°	261.1	9.6
80°-90°	68.9	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°	670.1	24.5
0°-40°	1104.4	40.4
0°-60°	2017.2	73.8
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	850	852	856	856	856	81
15°	818	820	826	830	832	231
25°	760	764	776	780	784	350
35°	674	680	694	708	714	421
45°	565	575	597	627	643	436
55°	436	450	499	549	575	391
65°	290	318	396	458	491	288
75°	143	189	267	322	340	153
85°	36	50	62	64	68	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	858.5	858.5	858.5	858.5	858.5
2.5°	852.5	854.5	858.5	858.5	860.5
5°	850.4	852.5	856.5	856.5	856.5
7.5°	844.4	846.4	850.4	852.5	852.5
10°	838.4	840.4	844.4	846.4	848.4
12.5°	828.3	830.3	836.4	840.4	840.4
15°	818.3	820.3	826.3	830.3	832.3
17.5°	806.2	810.2	816.3	820.3	822.3
20°	790.1	794.1	802.2	808.2	810.2
22.5°	776.1	780.1	788.1	794.1	798.2
25°	760.0	764.0	776.1	780.1	784.1
27.5°	739.9	743.9	753.9	762.0	768.0
30°	719.8	723.8	735.8	745.9	749.9
32.5°	697.6	703.7	717.7	725.8	731.8
35°	673.5	679.5	693.6	707.7	713.7
37.5°	649.4	655.4	669.5	687.6	695.6
40°	621.2	629.3	647.4	671.5	675.5
42.5°	595.1	605.2	621.2	649.4	659.4
45°	565.0	575.0	597.1	627.3	643.4
47.5°	536.8	546.9	571.0	607.2	627.3
50°	502.6	516.7	546.9	589.1	609.2
52.5°	470.5	482.5	522.7	569.0	593.1
55°	436.3	450.4	498.6	548.9	575.0
57.5°	406.1	418.2	472.5	528.8	558.9
60°	367.9	384.0	446.3	506.6	536.8
62.5°	327.7	351.8	420.2	482.5	514.7
65°	289.5	317.7	396.1	458.4	490.6
67.5°	255.3	285.5	365.9	432.3	462.4
70°	215.1	253.3	335.8	400.1	434.3
72.5°	178.9	221.2	301.6	365.9	396.1
75°	142.7	189.0	267.4	321.7	339.8
77.5°	110.6	154.8	229.2	245.3	247.3
80°	82.4	122.6	170.9	172.9	178.9
82.5°	56.3	86.5	110.6	120.6	122.6
85°	36.2	50.3	62.3	64.3	68.4
87.5°	16.1	18.1	22.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)