

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: P308578

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CP125-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: P308578  
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-CP125-W2A-U-5000K  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS WITH INSERT, 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**

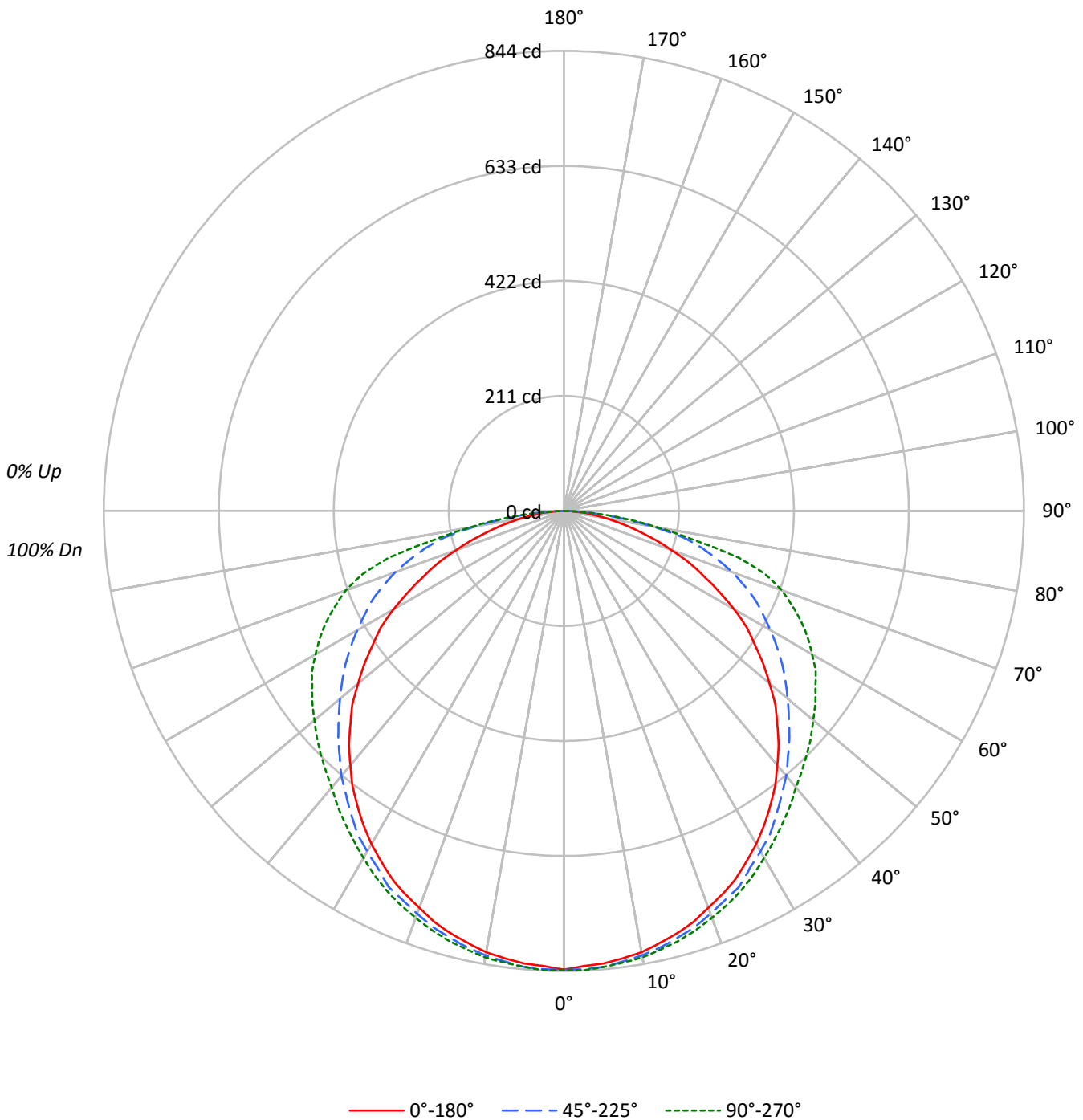
Lumens per Lamp: N/A  
Luminaire Lumens: 2679.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	2264	2264	2264
5°	2252	2268	2268
10°	2246	2262	2273
15°	2235	2257	2273
20°	2218	2252	2274
25°	2212	2259	2282
30°	2192	2241	2284
35°	2169	2234	2298
40°	2139	2229	2326
45°	2108	2227	2400
50°	2063	2244	2500
55°	2007	2293	2644
60°	1941	2355	2832
65°	1807	2472	3062
70°	1659	2589	3349
75°	1455	2725	3463
80°	1252	2596	2718
85°	1096	1886	2069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.0
10°-20°	228.6	8.5
20°-30°	348.7	13.0
30°-40°	425.8	15.9
40°-50°	455.3	17.0
50°-60°	439.4	16.4
60°-70°	378.3	14.1
70°-80°	255.9	9.6
80°-90°	67.5	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°	656.9	24.5
0°-40°	1082.6	40.4
0°-60°	1977.3	73.8
0°-90°	2679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	834	836	840	840	840	79
15°	802	804	810	814	816	226
25°	745	749	761	765	769	343
35°	660	666	680	694	700	413
45°	554	564	585	615	631	427
55°	428	442	489	538	564	383
65°	284	311	388	449	481	282
75°	140	185	262	315	333	150
85°	36	49	61	63	67	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	841.5	841.5	841.5	841.5	841.5
2.5°	835.6	837.6	841.5	841.5	843.5
5°	833.6	835.6	839.5	839.5	839.5
7.5°	827.7	829.7	833.6	835.6	835.6
10°	821.8	823.8	827.7	829.7	831.7
12.5°	812.0	813.9	819.8	823.8	823.8
15°	802.1	804.1	810.0	813.9	815.9
17.5°	790.3	794.2	800.1	804.1	806.0
20°	774.5	778.5	786.3	792.3	794.2
22.5°	760.7	764.7	772.5	778.5	782.4
25°	745.0	748.9	760.7	764.7	768.6
27.5°	725.2	729.2	739.0	746.9	752.8
30°	705.5	709.5	721.3	731.2	735.1
32.5°	683.9	689.8	703.6	711.4	717.4
35°	660.2	666.1	679.9	693.7	699.6
37.5°	636.6	642.5	656.3	674.0	681.9
40°	609.0	616.9	634.6	658.2	662.2
42.5°	583.3	593.2	609.0	636.6	646.4
45°	553.8	563.6	585.3	614.9	630.6
47.5°	526.2	536.1	559.7	595.2	614.9
50°	492.7	506.5	536.1	577.4	597.1
52.5°	461.2	473.0	512.4	557.7	581.4
55°	427.7	441.5	488.8	538.0	563.6
57.5°	398.1	409.9	463.1	518.3	547.9
60°	360.7	376.4	437.5	496.6	526.2
62.5°	321.2	344.9	411.9	473.0	504.5
65°	283.8	311.4	388.2	449.3	480.9
67.5°	250.3	279.8	358.7	423.7	453.3
70°	210.9	248.3	329.1	392.2	425.7
72.5°	175.4	216.8	295.6	358.7	388.2
75°	139.9	185.3	262.1	315.3	333.1
77.5°	108.4	151.7	224.7	240.4	242.4
80°	80.8	120.2	167.5	169.5	175.4
82.5°	55.2	84.7	108.4	118.2	120.2
85°	35.5	49.3	61.1	63.1	67.0
87.5°	15.8	17.7	21.7	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)