

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: P308581

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-6500K**

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: P308581  
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-6500K  
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**

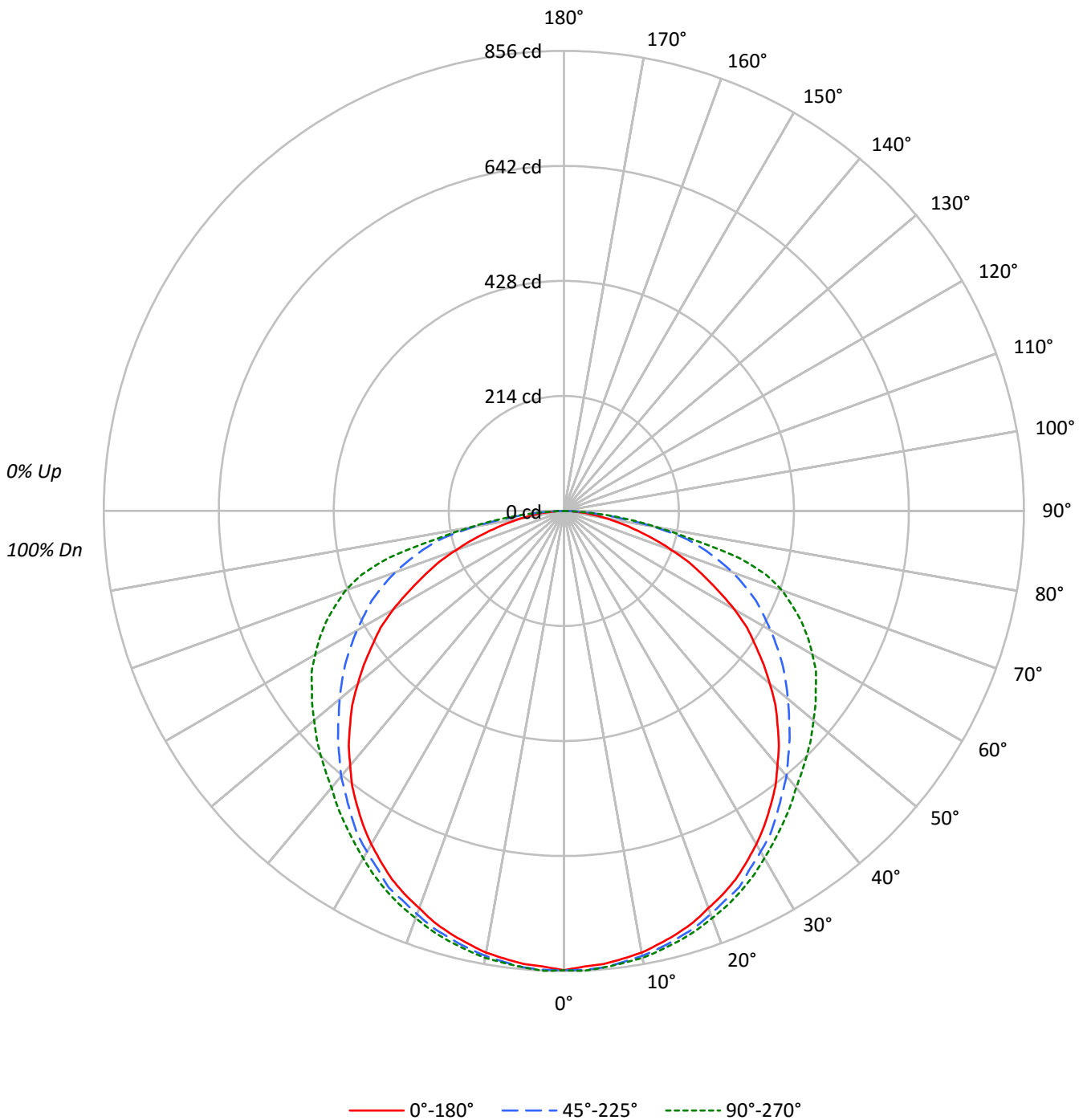
Lumens per Lamp: N/A  
Luminaire Lumens: 2720.0 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P308581

CATALOG NUMBER: 22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P308581

CATALOG NUMBER: 22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-6500K

**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°	2299	2299	2299
5°	2286	2303	2303
10°	2280	2296	2307
15°	2269	2291	2308
20°	2252	2286	2309
25°	2246	2293	2317
30°	2226	2275	2319
35°	2202	2268	2333
40°	2172	2263	2362
45°	2140	2262	2437
50°	2094	2279	2538
55°	2037	2328	2685
60°	1971	2391	2875
65°	1834	2510	3109
70°	1685	2629	3401
75°	1477	2767	3516
80°	1271	2636	2760
85°	1112	1914	2100



TEST NUMBER: P308581

CATALOG NUMBER: 22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	232.1	8.5
20°-30°	354.0	13.0
30°-40°	432.3	15.9
40°-50°	462.2	17.0
50°-60°	446.1	16.4
60°-70°	384.0	14.1
70°-80°	259.8	9.6
80°-90°	68.6	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°	666.9	24.5
0°-40°	1099.2	40.4
0°-60°	2007.6	73.8
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	846	848	852	852	852	80
15°	814	816	822	826	828	230
25°	756	760	772	776	780	348
35°	670	676	690	704	710	419
45°	562	572	594	624	640	434
55°	434	448	496	546	572	389
65°	288	316	394	456	488	287
75°	142	188	266	320	338	152
85°	36	50	62	64	68	41
90°	0	0	0	0	0	



TEST NUMBER: P308581

CATALOG NUMBER: 22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	854.4	854.4	854.4	854.4	854.4
2.5°	848.4	850.4	854.4	854.4	856.4
5°	846.4	848.4	852.4	852.4	852.4
7.5°	840.4	842.4	846.4	848.4	848.4
10°	834.4	836.4	840.4	842.4	844.4
12.5°	824.4	826.4	832.4	836.4	836.4
15°	814.4	816.4	822.4	826.4	828.4
17.5°	802.4	806.4	812.4	816.4	818.4
20°	786.4	790.4	798.4	804.4	806.4
22.5°	772.4	776.4	784.4	790.4	794.4
25°	756.4	760.4	772.4	776.4	780.4
27.5°	736.3	740.3	750.4	758.4	764.4
30°	716.3	720.3	732.3	742.3	746.3
32.5°	694.3	700.3	714.3	722.3	728.3
35°	670.3	676.3	690.3	704.3	710.3
37.5°	646.3	652.3	666.3	684.3	692.3
40°	618.3	626.3	644.3	668.3	672.3
42.5°	592.3	602.3	618.3	646.3	656.3
45°	562.3	572.3	594.3	624.3	640.3
47.5°	534.2	544.3	568.3	604.3	624.3
50°	500.2	514.2	544.3	586.3	606.3
52.5°	468.2	480.2	520.2	566.3	590.3
55°	434.2	448.2	496.2	546.3	572.3
57.5°	404.2	416.2	470.2	526.2	556.3
60°	366.2	382.2	444.2	504.2	534.2
62.5°	326.2	350.2	418.2	480.2	512.2
65°	288.1	316.1	394.2	456.2	488.2
67.5°	254.1	284.1	364.2	430.2	460.2
70°	214.1	252.1	334.2	398.2	432.2
72.5°	178.1	220.1	300.1	364.2	394.2
75°	142.1	188.1	266.1	320.1	338.2
77.5°	110.1	154.1	228.1	244.1	246.1
80°	82.0	122.1	170.1	172.1	178.1
82.5°	56.0	86.0	110.1	120.1	122.1
85°	36.0	50.0	62.0	64.0	68.0
87.5°	16.0	18.0	22.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)