

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: P308574

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CP125-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: P308574  
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-3000K  
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: 2457.0 lumens  
Efficiency: N/A  
Efficacy: 66.6 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

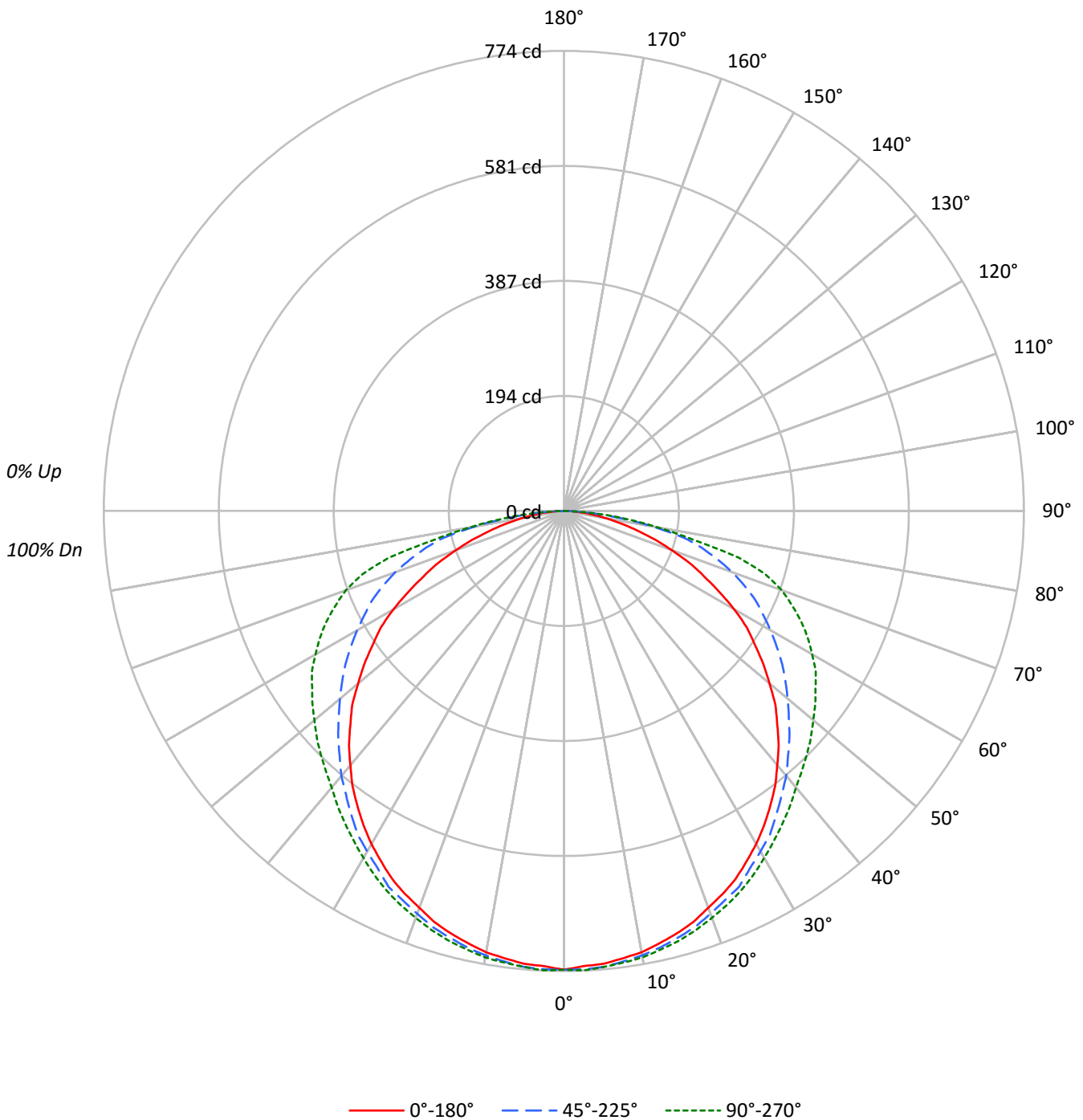
Input Watts (W): 36.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2077	2077	2077
5°	2065	2080	2080
10°	2059	2074	2084
15°	2049	2070	2085
20°	2034	2065	2086
25°	2029	2072	2093
30°	2011	2055	2095
35°	1989	2049	2108
40°	1962	2044	2133
45°	1933	2043	2201
50°	1892	2058	2293
55°	1840	2103	2425
60°	1780	2160	2597
65°	1657	2267	2808
70°	1522	2375	3072
75°	1334	2499	3176
80°	1148	2380	2493
85°	1003	1729	1899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	3.0
10°-20°	209.6	8.5
20°-30°	319.8	13.0
30°-40°	390.5	15.9
40°-50°	417.5	17.0
50°-60°	403.0	16.4
60°-70°	346.9	14.1
70°-80°	234.7	9.6
80°-90°	61.9	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°	602.4	24.5
0°-40°	992.9	40.4
0°-60°	1813.4	73.8
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	765	766	770	770	770	73
15°	736	737	743	746	748	208
25°	683	687	698	701	705	314
35°	606	611	624	636	642	379
45°	508	517	537	564	578	392
55°	392	405	448	493	517	351
65°	260	286	356	412	441	259
75°	128	170	240	289	306	138
85°	32	45	56	58	62	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	766.4	768.2	771.8	771.8	773.6
5°	764.6	766.4	770.0	770.0	770.0
7.5°	759.1	760.9	764.6	766.4	766.4
10°	753.7	755.5	759.1	760.9	762.7
12.5°	744.7	746.5	751.9	755.5	755.5
15°	735.6	737.4	742.9	746.5	748.3
17.5°	724.8	728.4	733.8	737.4	739.3
20°	710.3	713.9	721.2	726.6	728.4
22.5°	697.7	701.3	708.5	713.9	717.6
25°	683.2	686.8	697.7	701.3	704.9
27.5°	665.1	668.8	677.8	685.0	690.5
30°	647.1	650.7	661.5	670.6	674.2
32.5°	627.2	632.6	645.3	652.5	657.9
35°	605.5	610.9	623.6	636.2	641.6
37.5°	583.8	589.2	601.9	618.2	625.4
40°	558.5	565.7	582.0	603.7	607.3
42.5°	535.0	544.0	558.5	583.8	592.8
45°	507.9	516.9	536.8	563.9	578.4
47.5°	482.6	491.6	513.3	545.9	563.9
50°	451.9	464.5	491.6	529.6	547.7
52.5°	422.9	433.8	469.9	511.5	533.2
55°	392.2	404.9	448.3	493.4	516.9
57.5°	365.1	376.0	424.8	475.4	502.5
60°	330.8	345.2	401.3	455.5	482.6
62.5°	294.6	316.3	377.8	433.8	462.7
65°	260.3	285.6	356.1	412.1	441.0
67.5°	229.5	256.7	329.0	388.6	415.7
70°	193.4	227.7	301.8	359.7	390.4
72.5°	160.9	198.8	271.1	329.0	356.1
75°	128.3	169.9	240.4	289.2	305.5
77.5°	99.4	139.2	206.1	220.5	222.3
80°	74.1	110.3	153.6	155.4	160.9
82.5°	50.6	77.7	99.4	108.4	110.3
85°	32.5	45.2	56.0	57.8	61.5
87.5°	14.5	16.3	19.9	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)