

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: P308575

Luminaire Tested: **22FCZ2-44HE-UNV-L82765-RDP-CP125-W2A-U-3500K**

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: P308575
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-3500K
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: 2542.0 lumens
Efficiency: N/A
Efficacy: 68.0 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

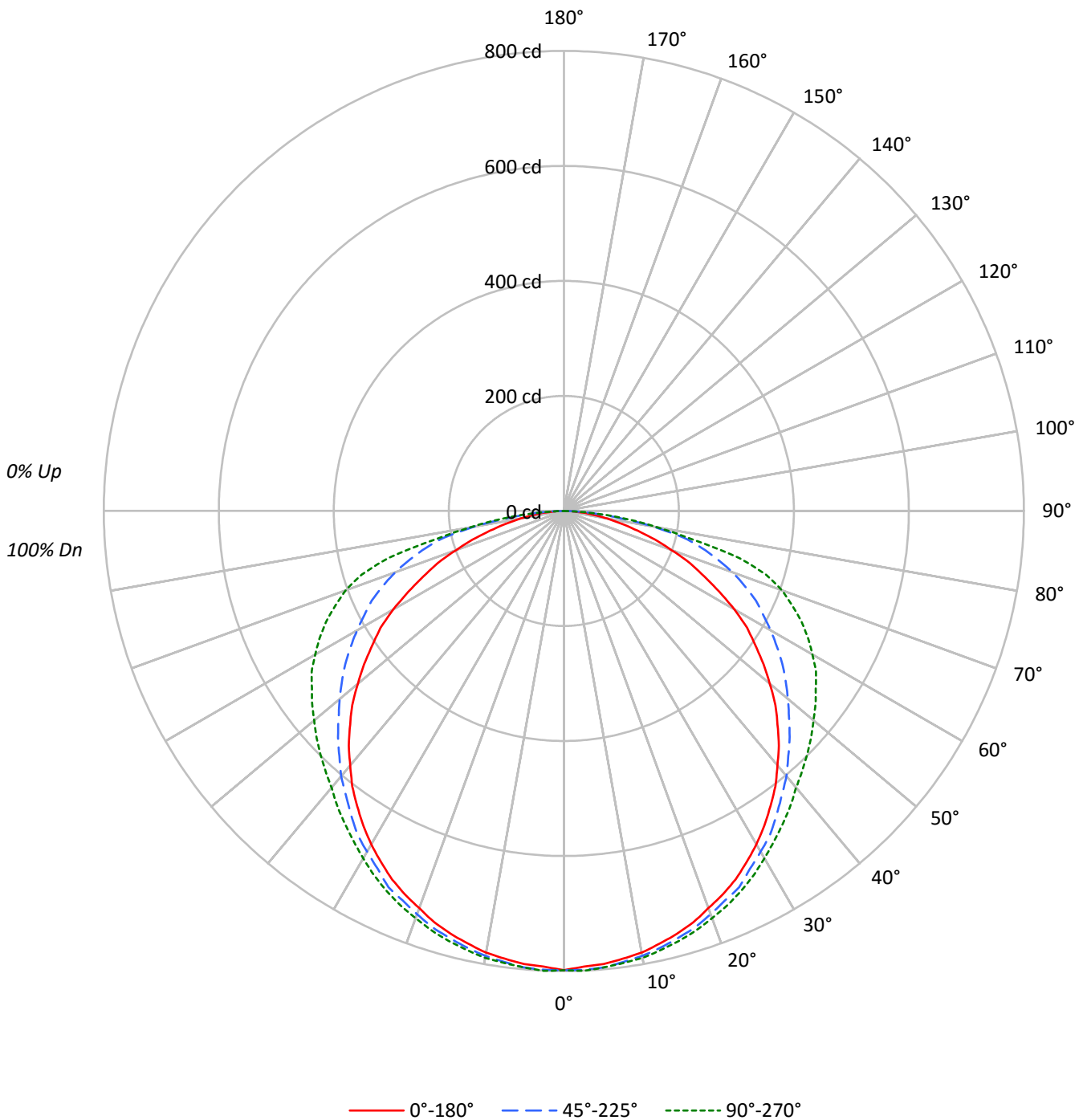
Input Watts (W): 37.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2149	2149	2149
5°	2137	2152	2152
10°	2131	2146	2156
15°	2120	2141	2157
20°	2105	2137	2158
25°	2099	2143	2165
30°	2080	2127	2167
35°	2058	2119	2181
40°	2030	2115	2207
45°	2000	2114	2277
50°	1957	2129	2372
55°	1904	2176	2509
60°	1842	2234	2687
65°	1715	2346	2905
70°	1574	2457	3178
75°	1381	2586	3285
80°	1189	2462	2579
85°	1041	1791	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.0
10°-20°	216.9	8.5
20°-30°	330.9	13.0
30°-40°	404.0	15.9
40°-50°	432.0	17.0
50°-60°	416.9	16.4
60°-70°	358.9	14.1
70°-80°	242.8	9.6
80°-90°	64.1	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°	623.3	24.5
0°-40°	1027.3	40.4
0°-60°	1876.2	73.8
0°-90°	2542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	791	793	797	797	797	75
15°	761	763	769	772	774	215
25°	707	711	722	726	729	325
35°	626	632	645	658	664	392
45°	526	535	555	583	598	406
55°	406	419	464	510	535	364
65°	269	296	368	426	456	268
75°	133	176	249	299	316	142
85°	34	47	58	60	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.5	798.5	798.5	798.5	798.5
2.5°	792.9	794.7	798.5	798.5	800.4
5°	791.0	792.9	796.6	796.6	796.6
7.5°	785.4	787.3	791.0	792.9	792.9
10°	779.8	781.7	785.4	787.3	789.1
12.5°	770.4	772.3	777.9	781.7	781.7
15°	761.1	763.0	768.6	772.3	774.2
17.5°	749.9	753.6	759.2	763.0	764.8
20°	734.9	738.6	746.1	751.7	753.6
22.5°	721.8	725.6	733.0	738.6	742.4
25°	706.9	710.6	721.8	725.6	729.3
27.5°	688.2	691.9	701.2	708.7	714.3
30°	669.5	673.2	684.4	693.8	697.5
32.5°	648.9	654.5	667.6	675.1	680.7
35°	626.4	632.1	645.1	658.2	663.8
37.5°	604.0	609.6	622.7	639.5	647.0
40°	577.8	585.3	602.1	624.6	628.3
42.5°	553.5	562.9	577.8	604.0	613.4
45°	525.5	534.8	555.4	583.4	598.4
47.5°	499.3	508.6	531.1	564.7	583.4
50°	467.5	480.6	508.6	547.9	566.6
52.5°	437.6	448.8	486.2	529.2	551.6
55°	405.8	418.9	463.8	510.5	534.8
57.5°	377.7	389.0	439.4	491.8	519.9
60°	342.2	357.2	415.1	471.2	499.3
62.5°	304.8	327.2	390.8	448.8	478.7
65°	269.3	295.5	368.4	426.4	456.3
67.5°	237.5	265.5	340.3	402.0	430.1
70°	200.1	235.6	312.3	372.1	403.9
72.5°	166.4	205.7	280.5	340.3	368.4
75°	132.8	175.8	248.7	299.2	316.0
77.5°	102.8	144.0	213.2	228.1	230.0
80°	76.7	114.1	158.9	160.8	166.4
82.5°	52.4	80.4	102.8	112.2	114.1
85°	33.7	46.7	58.0	59.8	63.6
87.5°	15.0	16.8	20.6	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)