

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: P308220

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-HRP-CP125-W2A-U-5700K**

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: P308220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-22)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22FCZ2-34HE-UNV-L82765-HRP-CP125-W2A-U-5700K  
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 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**

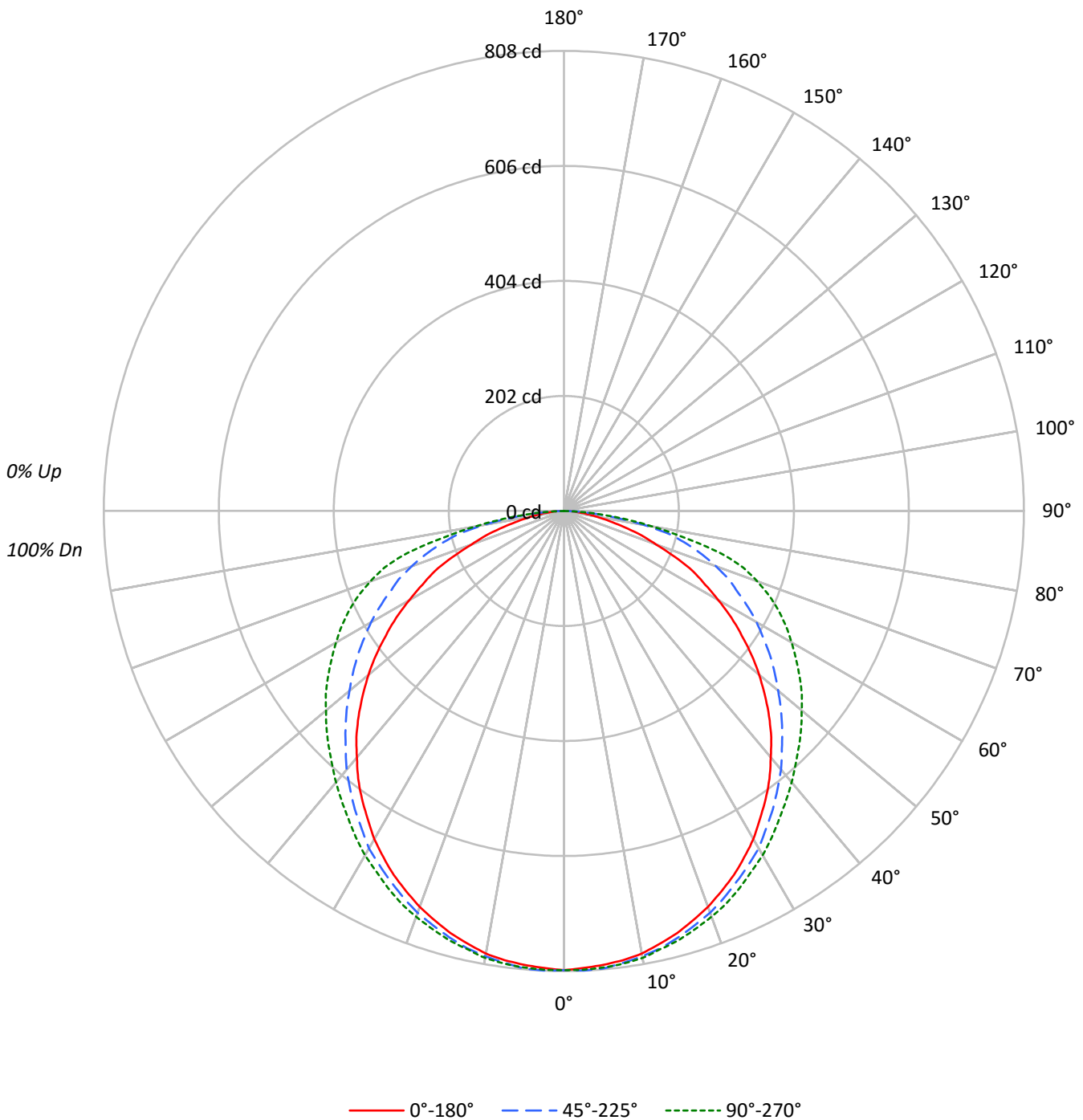
Lumens per Lamp: N/A  
Luminaire Lumens: 2449.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2170	2170	2170
5°	2162	2178	2174
10°	2157	2170	2178
15°	2139	2160	2174
20°	2119	2150	2172
25°	2096	2133	2170
30°	2069	2127	2170
35°	2030	2101	2167
40°	1986	2084	2187
45°	1940	2064	2222
50°	1876	2057	2283
55°	1790	2073	2370
60°	1688	2104	2486
65°	1594	2145	2656
70°	1361	2237	2844
75°	1141	2329	2956
80°	934	2250	2466
85°	812	1670	1812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.1
10°-20°	218.6	8.9
20°-30°	331.3	13.5
30°-40°	400.1	16.3
40°-50°	420.4	17.2
50°-60°	395.6	16.2
60°-70°	329.8	13.5
70°-80°	218.5	8.9
80°-90°	58.2	2.4
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°	626.4	25.6
0°-40°	1026.5	41.9
0°-60°	1842.4	75.2
0°-90°	2449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	800	802	806	806	805	76
15°	768	771	776	779	780	216
25°	706	711	718	728	731	325
35°	618	624	640	654	660	386
45°	510	518	542	570	584	393
55°	382	399	442	487	505	341
65°	250	272	337	392	417	244
75°	110	153	224	270	284	119
85°	26	40	54	59	59	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	806.4	806.4	806.4	806.4	806.4
2.5°	803.3	804.9	808.0	808.0	806.4
5°	800.2	801.8	806.4	806.4	804.9
7.5°	795.6	797.2	800.2	803.3	801.8
10°	789.4	791.0	794.1	797.2	797.2
12.5°	778.6	780.2	786.3	787.9	787.9
15°	767.8	770.9	775.5	778.6	780.2
17.5°	753.9	757.0	763.2	769.4	769.4
20°	740.0	743.1	750.8	757.0	758.5
22.5°	723.0	727.6	735.4	743.1	746.2
25°	706.0	710.6	718.4	727.6	730.7
27.5°	685.9	690.6	701.4	712.2	713.7
30°	665.8	670.5	684.4	693.7	698.3
32.5°	641.1	647.3	661.2	675.1	679.7
35°	618.0	624.1	639.6	653.5	659.7
37.5°	593.2	599.4	616.4	633.4	641.1
40°	565.4	573.2	593.2	611.8	622.6
42.5°	539.2	546.9	567.0	591.7	602.5
45°	509.8	517.5	542.3	570.1	584.0
47.5°	478.9	488.2	517.5	551.5	565.4
50°	448.0	458.8	491.3	529.9	545.3
52.5°	415.6	429.5	466.6	508.3	526.8
55°	381.6	398.6	441.8	486.6	505.2
57.5°	349.1	364.6	415.6	463.5	483.5
60°	313.6	333.7	390.9	440.3	461.9
62.5°	279.6	301.3	364.6	417.1	440.3
65°	250.3	271.9	336.8	392.4	417.1
67.5°	211.6	241.0	313.6	366.1	390.9
70°	173.0	213.2	284.3	338.3	361.5
72.5°	143.7	182.3	254.9	309.0	330.6
75°	109.7	152.9	224.0	270.4	284.3
77.5°	81.9	126.7	191.6	214.7	216.3
80°	60.3	97.3	145.2	152.9	159.1
82.5°	41.7	68.0	94.2	103.5	106.6
85°	26.3	40.2	54.1	58.7	58.7
87.5°	13.9	15.4	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)