

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: P307572

Luminaire Tested: **14FCZ2-25-UNV-L82765-CA08-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: P307572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-CA08-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5700K 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: 2444.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

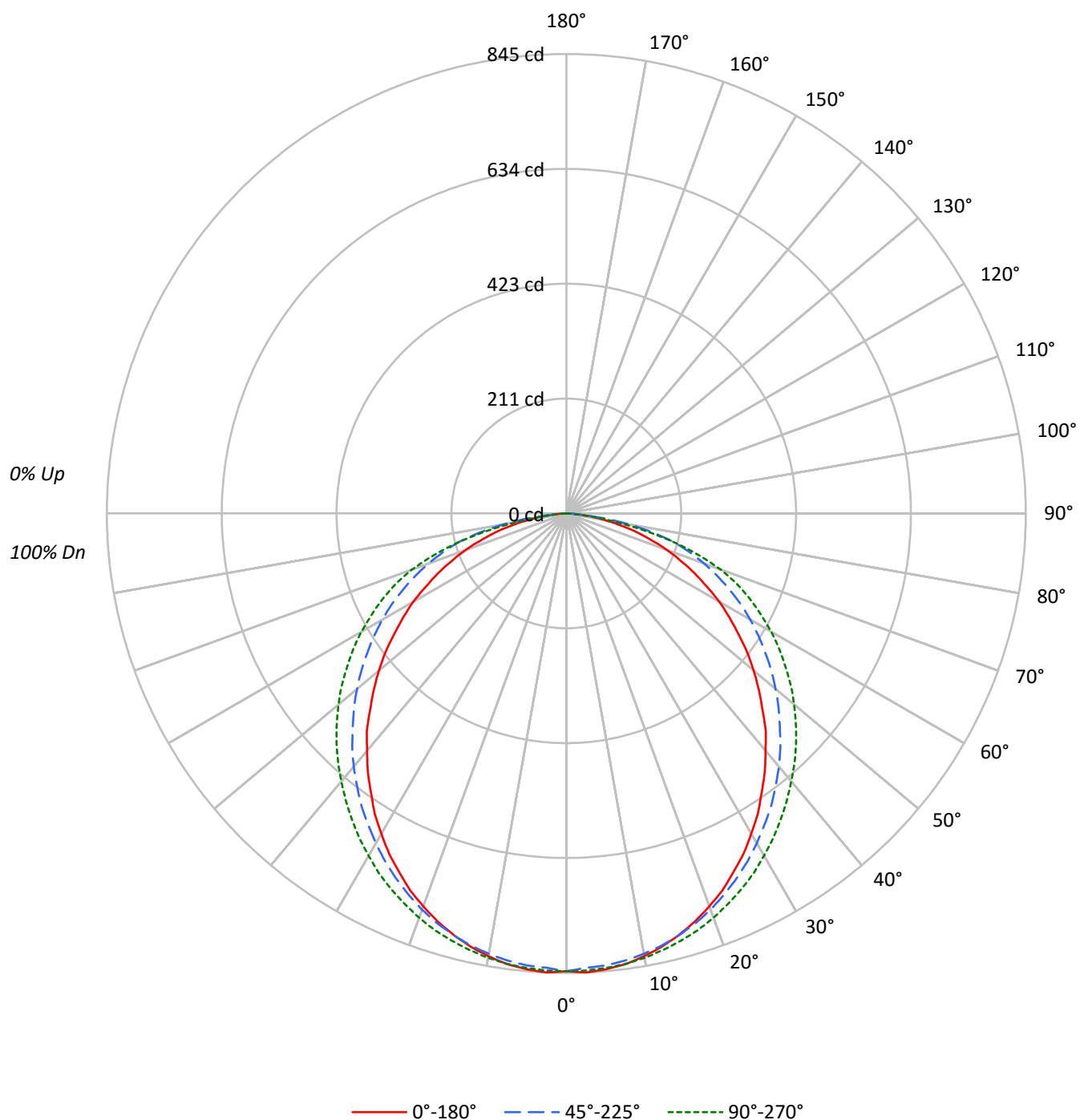
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2273	2254	2267
10°	2259	2247	2268
15°	2235	2236	2267
20°	2202	2221	2266
25°	2160	2199	2264
30°	2113	2176	2259
35°	2057	2157	2258
40°	2002	2136	2261
45°	1941	2113	2273
50°	1884	2104	2288
55°	1813	2097	2309
60°	1748	2100	2341
65°	1659	2106	2377
70°	1556	2123	2375
75°	1411	2142	2147
80°	1158	1849	1528
85°	858	874	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.3
10°-20°	227.6	9.3
20°-30°	342.8	14.0
30°-40°	411.4	16.8
40°-50°	428.8	17.5
50°-60°	397.0	16.2
60°-70°	320.7	13.1
70°-80°	195.6	8.0
80°-90°	40.4	1.7
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°	650.1	26.6
0°-40°	1061.5	43.4
0°-60°	1887.3	77.2
0°-90°	2444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	841	839	834	840	839	80
15°	802	803	803	814	814	226
25°	728	732	741	759	762	335
35°	626	636	657	681	687	392
45°	510	525	555	586	597	394
55°	386	406	447	482	492	346
65°	260	286	331	364	373	258
75°	136	166	206	209	206	142
85°	28	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.0	842.0	842.0	842.0	842.0
2.5°	845.2	842.5	836.5	842.5	841.4
5°	841.4	839.2	834.3	840.3	839.2
7.5°	836.0	833.8	829.4	836.5	835.4
10°	826.7	825.6	822.3	830.5	830.0
12.5°	815.8	815.3	813.6	822.9	822.3
15°	802.2	802.7	802.7	813.6	813.6
17.5°	786.9	788.0	790.2	802.2	803.8
20°	768.9	771.1	775.5	789.1	791.3
22.5°	750.4	752.0	758.6	774.9	777.1
25°	727.5	731.9	740.6	759.1	762.4
27.5°	705.7	709.5	721.5	740.6	746.1
30°	680.1	686.1	700.3	721.0	727.0
32.5°	655.6	662.1	678.5	702.5	707.9
35°	626.2	636.0	656.7	680.7	687.2
37.5°	599.5	608.7	632.2	658.3	665.9
40°	570.0	581.5	608.2	636.0	643.6
42.5°	542.8	553.7	582.6	610.9	621.3
45°	510.1	525.3	555.3	586.4	597.3
47.5°	480.1	495.4	529.7	562.9	572.8
50°	450.1	466.5	502.5	536.8	546.6
52.5°	419.1	436.5	475.2	509.5	521.0
55°	386.4	406.5	446.9	481.7	492.1
57.5°	355.3	376.0	419.1	454.5	464.9
60°	324.8	346.1	390.2	424.0	434.9
62.5°	291.0	316.1	361.9	395.1	403.3
65°	260.5	286.1	330.8	364.0	373.3
67.5°	228.3	256.1	300.8	331.3	340.1
70°	197.8	226.7	269.8	298.1	301.9
72.5°	165.1	194.6	238.1	256.1	256.1
75°	135.7	165.7	206.0	209.3	206.5
77.5°	103.5	136.8	162.9	156.4	149.9
80°	74.7	107.4	119.3	107.4	98.6
82.5°	50.1	77.9	71.9	57.2	50.7
85°	27.8	41.4	28.3	15.8	11.4
87.5°	10.4	9.3	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)