

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: P307573

Luminaire Tested: **14FCZ2-25-UNV-L82765-CA08-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: P307573
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-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 6500K 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: 2450.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

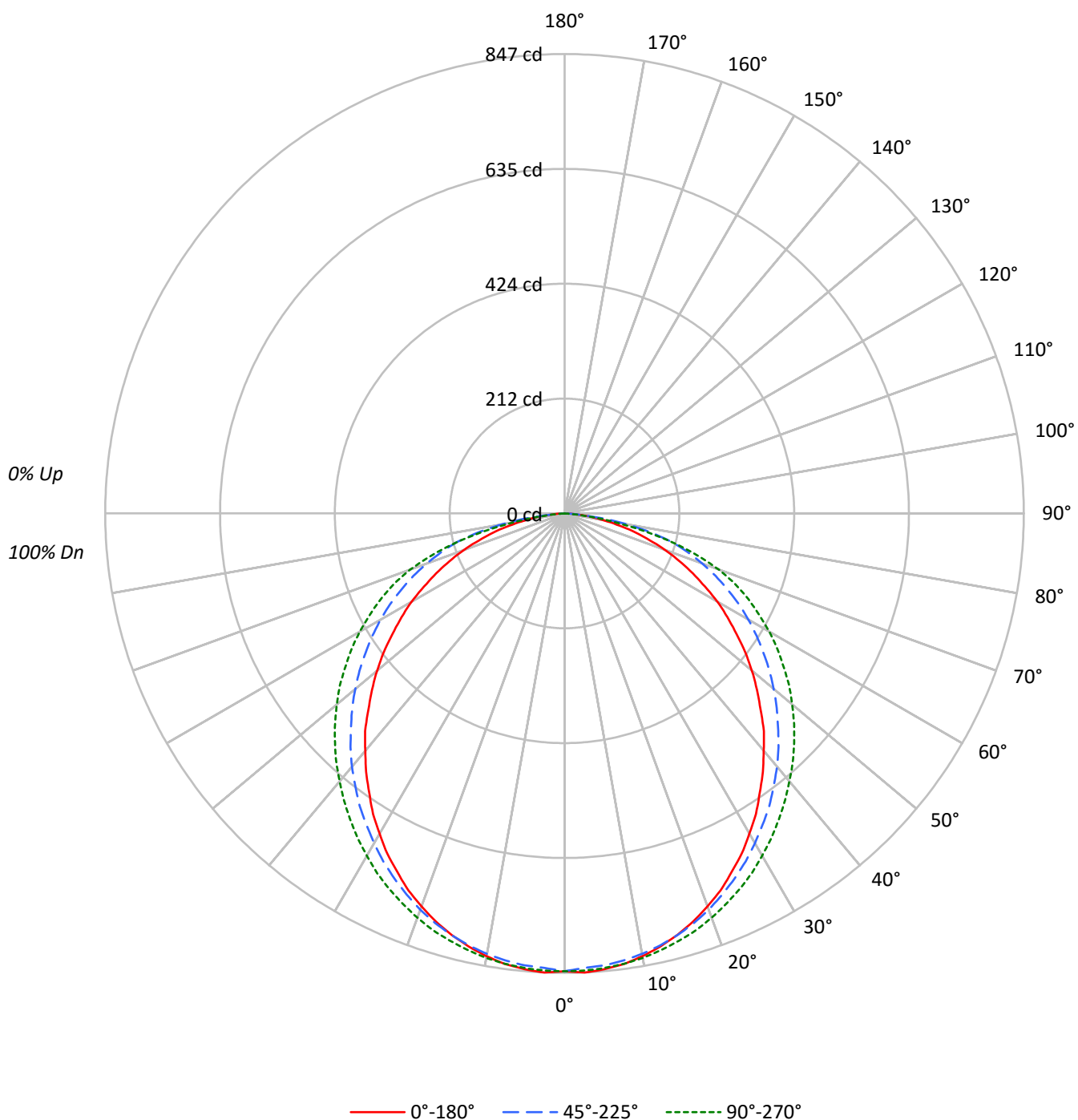
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32		
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2271	2271	2271
5°	2279	2259	2273
10°	2264	2253	2273
15°	2240	2242	2272
20°	2207	2226	2271
25°	2165	2204	2269
30°	2119	2181	2265
35°	2062	2163	2263
40°	2007	2142	2266
45°	1946	2119	2278
50°	1889	2109	2294
55°	1817	2102	2314
60°	1752	2105	2346
65°	1663	2111	2383
70°	1560	2127	2382
75°	1414	2147	2152
80°	1159	1853	1533
85°	861	877	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.3
10°-20°	228.1	9.3
20°-30°	343.7	14.0
30°-40°	412.4	16.8
40°-50°	429.9	17.5
50°-60°	397.9	16.2
60°-70°	321.5	13.1
70°-80°	196.0	8.0
80°-90°	40.5	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°	651.7	26.6
0°-40°	1064.1	43.4
0°-60°	1891.9	77.2
0°-90°	2450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	844	841	836	842	841	80
15°	804	805	805	816	816	227
25°	729	734	742	761	764	336
35°	628	638	658	682	689	393
45°	511	527	557	588	599	395
55°	387	408	448	483	493	347
65°	261	287	332	365	374	258
75°	136	166	206	210	207	143
85°	28	42	28	16	12	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.0	844.0	844.0	844.0	844.0
2.5°	847.3	844.6	838.6	844.6	843.5
5°	843.5	841.3	836.4	842.4	841.3
7.5°	838.0	835.8	831.5	838.6	837.5
10°	828.7	827.6	824.4	832.6	832.0
12.5°	817.8	817.3	815.6	824.9	824.4
15°	804.2	804.7	804.7	815.6	815.6
17.5°	788.9	789.9	792.1	804.2	805.8
20°	770.8	773.0	777.4	791.0	793.2
22.5°	752.3	753.9	760.4	776.8	779.0
25°	729.3	733.7	742.4	761.0	764.3
27.5°	707.5	711.3	723.3	742.4	747.9
30°	681.8	687.8	702.0	722.8	728.8
32.5°	657.2	663.8	680.1	704.2	709.6
35°	627.7	637.5	658.3	682.3	688.9
37.5°	600.9	610.2	633.7	659.9	667.6
40°	571.4	582.9	609.7	637.5	645.2
42.5°	544.1	555.0	584.0	612.4	622.8
45°	511.3	526.6	556.7	587.8	598.7
47.5°	481.3	496.6	531.0	564.3	574.2
50°	451.2	467.6	503.7	538.1	547.9
52.5°	420.1	437.6	476.4	510.8	522.3
55°	387.3	407.5	448.0	482.9	493.3
57.5°	356.2	376.9	420.1	455.6	466.0
60°	325.6	346.9	391.2	425.0	435.9
62.5°	291.7	316.9	362.7	396.1	404.3
65°	261.1	286.8	331.6	364.9	374.2
67.5°	228.9	256.8	301.6	332.2	340.9
70°	198.3	227.3	270.4	298.8	302.7
72.5°	165.5	195.0	238.7	256.8	256.8
75°	136.0	166.1	206.5	209.8	207.0
77.5°	103.8	137.1	163.3	156.8	150.2
80°	74.8	107.6	119.6	107.6	98.9
82.5°	50.3	78.1	72.1	57.4	50.8
85°	27.9	41.5	28.4	15.8	11.5
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)