

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: P307840

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA08-W2A-U-5000K**

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: P307840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CA08-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5000K 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: 2439.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

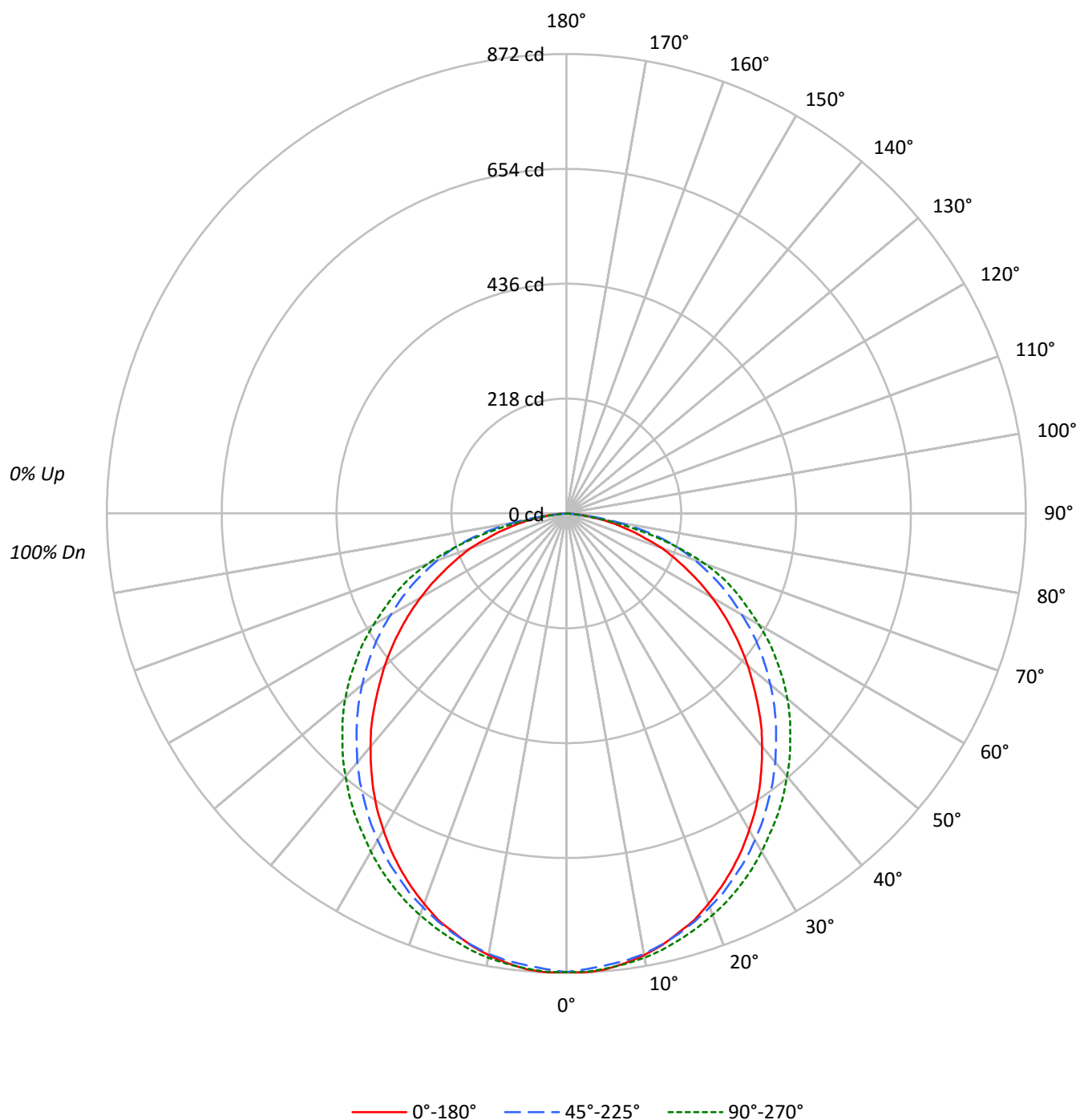
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2343	2343	2343
5°	2346	2326	2342
10°	2326	2320	2340
15°	2294	2301	2331
20°	2258	2279	2324
25°	2212	2251	2316
30°	2157	2224	2303
35°	2098	2193	2296
40°	2030	2166	2290
45°	1956	2140	2287
50°	1883	2116	2293
55°	1804	2099	2286
60°	1718	2070	2271
65°	1617	2064	2271
70°	1522	2046	2208
75°	1320	1999	1886
80°	1068	1612	1255
85°	710	559	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.4
10°-20°	234.0	9.6
20°-30°	350.9	14.4
30°-40°	418.6	17.2
40°-50°	432.8	17.7
50°-60°	395.1	16.2
60°-70°	311.0	12.7
70°-80°	181.0	7.4
80°-90°	33.3	1.4
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°	667.1	27.4
0°-40°	1085.8	44.5
0°-60°	1913.7	78.5
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	868	866	861	868	867	82
15°	824	825	826	837	837	232
25°	745	748	758	776	780	343
35°	638	647	668	693	699	399
45°	514	531	562	594	601	397
55°	385	405	447	480	487	344
65°	254	281	324	350	357	252
75°	127	157	192	189	181	135
85°	23	33	18	14	12	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.7	870.7	870.7	870.7	870.7
2.5°	871.9	869.5	865.8	871.9	870.7
5°	868.3	865.8	861.0	868.3	867.1
7.5°	861.0	858.6	856.2	863.4	862.2
10°	851.3	850.1	848.9	857.4	856.2
12.5°	839.2	839.2	838.0	847.7	847.7
15°	823.5	824.7	825.9	836.8	836.8
17.5°	809.0	807.8	811.4	823.5	824.7
20°	788.5	790.9	795.7	810.2	811.4
22.5°	767.9	770.3	778.8	793.3	796.9
25°	744.9	748.5	758.2	776.4	780.0
27.5°	720.7	725.6	738.9	758.2	761.8
30°	694.1	701.4	715.9	737.7	741.3
32.5°	667.5	674.8	692.9	714.7	719.5
35°	638.5	647.0	667.5	692.9	699.0
37.5°	608.3	619.2	643.3	668.7	676.0
40°	578.0	590.1	616.7	643.3	651.8
42.5°	547.8	559.9	588.9	619.2	627.6
45°	513.9	530.9	562.3	593.8	601.0
47.5°	481.3	499.4	534.5	565.9	575.6
50°	449.9	468.0	505.5	538.1	547.8
52.5°	417.2	436.6	476.5	510.3	518.8
55°	384.6	405.1	447.4	480.1	487.3
57.5°	351.9	373.7	417.2	448.6	457.1
60°	319.3	342.2	384.6	416.0	422.0
62.5°	286.6	310.8	354.3	382.1	388.2
65°	253.9	280.6	324.1	349.5	356.7
67.5°	222.5	249.1	291.4	315.6	321.7
70°	193.5	217.7	260.0	278.1	280.6
72.5°	157.2	187.4	228.6	238.2	232.2
75°	127.0	157.2	192.3	188.6	181.4
77.5°	96.7	127.0	150.0	137.9	128.2
80°	68.9	99.2	104.0	85.9	81.0
82.5°	44.7	68.9	58.0	44.7	36.3
85°	23.0	32.7	18.1	14.5	12.1
87.5°	7.3	4.8	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)