

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: P307851

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA125-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: P307851
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-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 2461.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

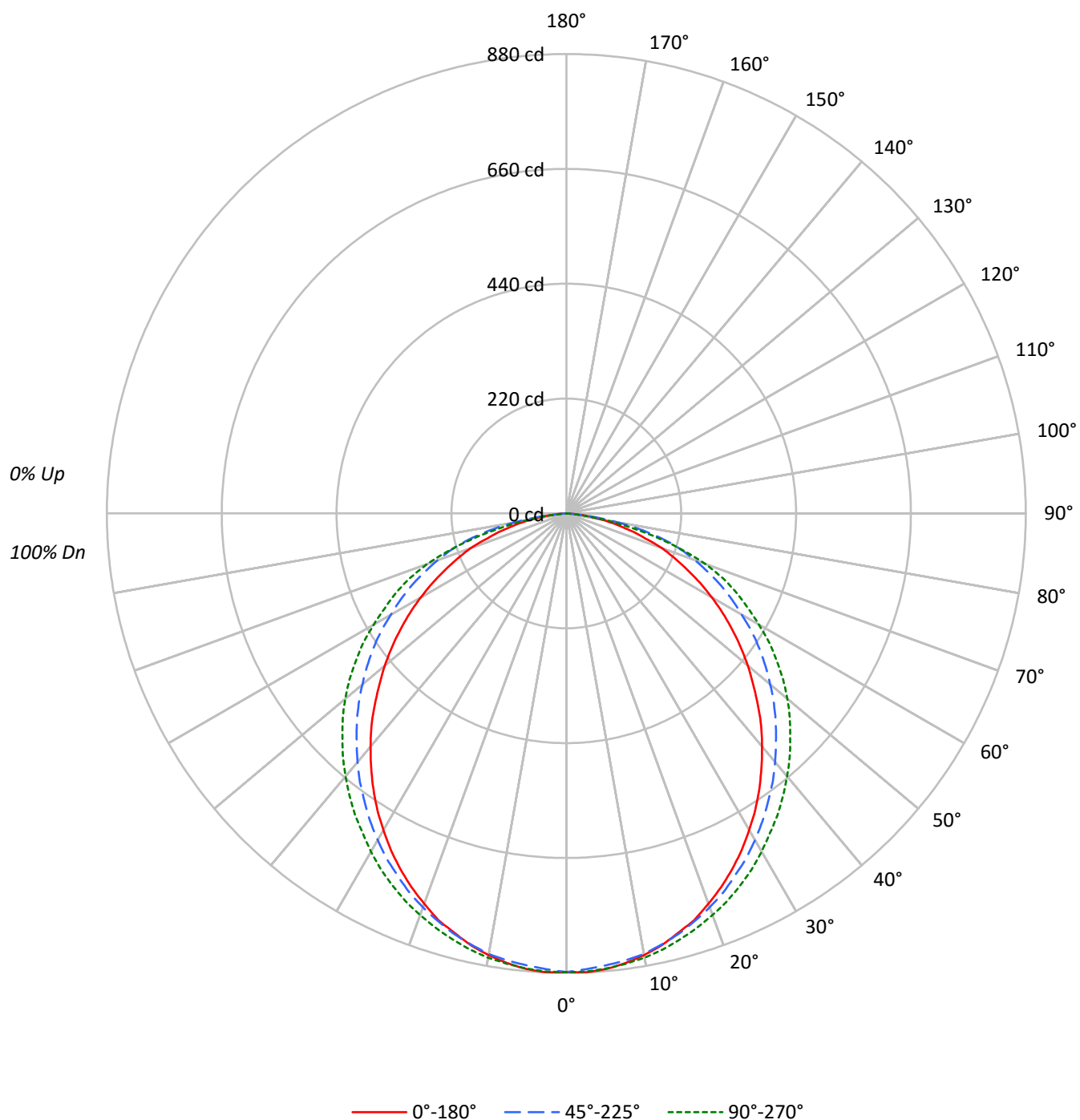
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2364	2364	2364
5°	2367	2347	2363
10°	2347	2341	2361
15°	2315	2322	2352
20°	2278	2299	2344
25°	2232	2272	2337
30°	2176	2245	2324
35°	2117	2213	2317
40°	2049	2186	2310
45°	1974	2159	2308
50°	1900	2135	2314
55°	1820	2118	2307
60°	1734	2088	2292
65°	1631	2082	2292
70°	1536	2064	2227
75°	1332	2017	1903
80°	1079	1626	1268
85°	716	565	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.4
10°-20°	236.1	9.6
20°-30°	354.1	14.4
30°-40°	422.4	17.2
40°-50°	436.7	17.7
50°-60°	398.7	16.2
60°-70°	313.8	12.7
70°-80°	182.6	7.4
80°-90°	33.6	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°	673.1	27.4
0°-40°	1095.6	44.5
0°-60°	1930.9	78.5
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	876	874	869	876	875	83
15°	831	832	833	844	844	234
25°	752	755	765	783	787	346
35°	644	653	674	699	705	403
45°	519	536	567	599	606	400
55°	388	409	452	484	492	347
65°	256	283	327	353	360	254
75°	128	159	194	190	183	136
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.5	878.5	878.5	878.5	878.5
2.5°	879.8	877.3	873.7	879.8	878.5
5°	876.1	873.7	868.8	876.1	874.9
7.5°	868.8	866.3	863.9	871.2	870.0
10°	859.0	857.8	856.6	865.1	863.9
12.5°	846.8	846.8	845.6	855.4	855.4
15°	830.9	832.2	833.4	844.4	844.4
17.5°	816.3	815.1	818.7	830.9	832.2
20°	795.6	798.0	802.9	817.5	818.7
22.5°	774.8	777.3	785.8	800.4	804.1
25°	751.6	755.3	765.1	783.4	787.0
27.5°	727.2	732.1	745.5	765.1	768.7
30°	700.4	707.7	722.4	744.3	748.0
32.5°	673.5	680.9	699.2	721.1	726.0
35°	644.3	652.8	673.5	699.2	705.3
37.5°	613.8	624.7	649.1	674.8	682.1
40°	583.3	595.5	622.3	649.1	657.7
42.5°	552.7	564.9	594.2	624.7	633.3
45°	518.6	535.7	567.4	599.1	606.4
47.5°	485.6	503.9	539.3	571.0	580.8
50°	453.9	472.2	510.0	543.0	552.7
52.5°	421.0	440.5	480.8	514.9	523.5
55°	388.0	408.8	451.5	484.4	491.7
57.5°	355.1	377.0	421.0	452.7	461.2
60°	322.1	345.3	388.0	419.7	425.8
62.5°	289.2	313.6	357.5	385.6	391.7
65°	256.2	283.1	327.0	352.6	360.0
67.5°	224.5	251.4	294.1	318.5	324.6
70°	195.2	219.6	262.3	280.6	283.1
72.5°	158.6	189.1	230.6	240.4	234.3
75°	128.1	158.6	194.0	190.3	183.0
77.5°	97.6	128.1	151.3	139.1	129.3
80°	69.6	100.1	104.9	86.6	81.8
82.5°	45.1	69.6	58.6	45.1	36.6
85°	23.2	32.9	18.3	14.6	12.2
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)