

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: P307846

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA125-W2A-U-3500K**

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: P307846
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-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3500K 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: 2306.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

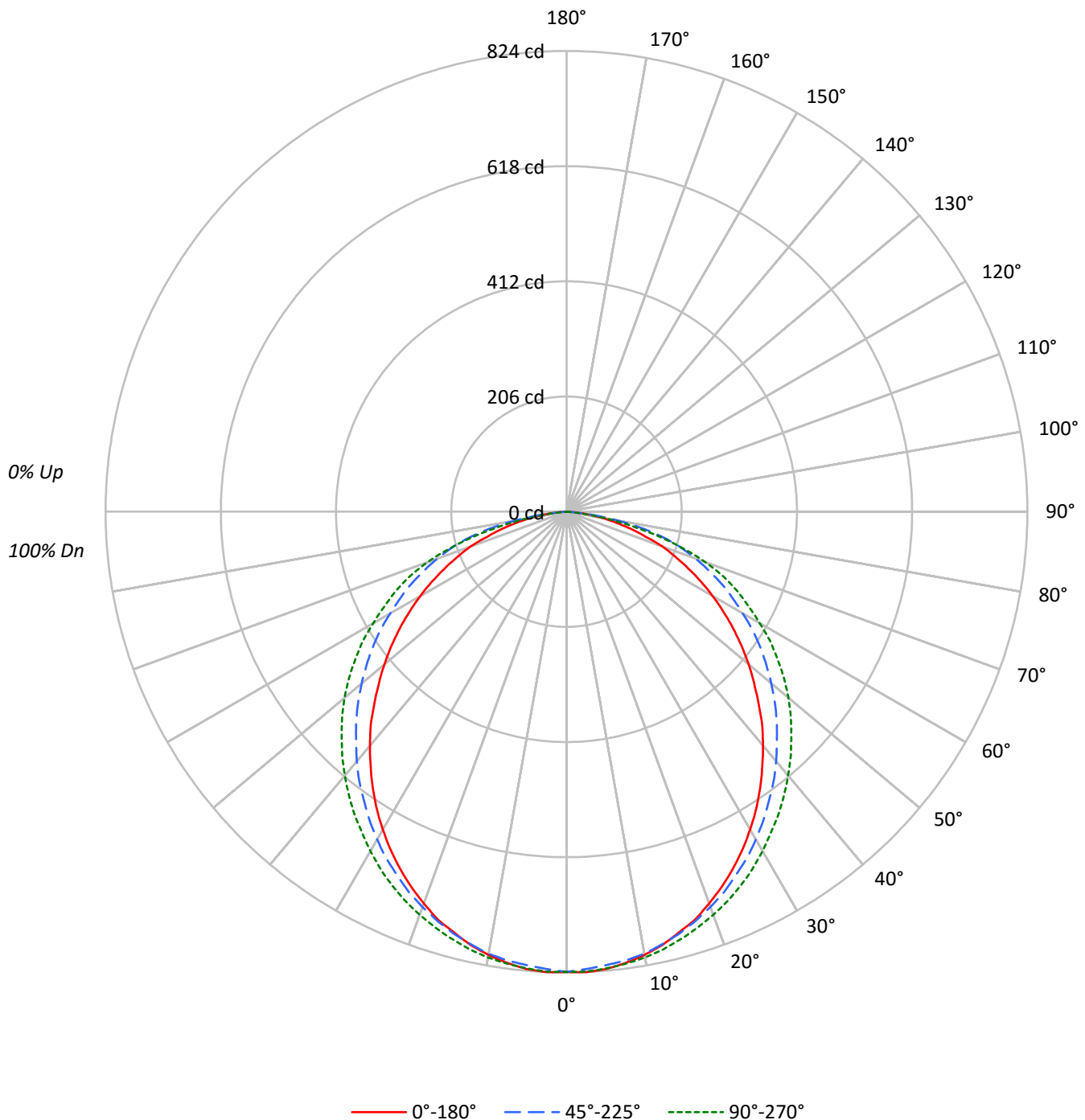
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2215	2215	2215
5°	2217	2199	2214
10°	2199	2193	2212
15°	2169	2176	2204
20°	2135	2154	2197
25°	2091	2129	2190
30°	2039	2103	2178
35°	1983	2073	2171
40°	1920	2048	2165
45°	1849	2023	2162
50°	1780	2001	2168
55°	1706	1985	2162
60°	1624	1957	2147
65°	1529	1951	2148
70°	1439	1934	2087
75°	1249	1890	1783
80°	1010	1523	1187
85°	670	531	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.4
10°-20°	221.2	9.6
20°-30°	331.8	14.4
30°-40°	395.8	17.2
40°-50°	409.2	17.7
50°-60°	373.6	16.2
60°-70°	294.0	12.7
70°-80°	171.1	7.4
80°-90°	31.5	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°	630.7	27.4
0°-40°	1026.6	44.5
0°-60°	1809.3	78.5
0°-90°	2306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	821	819	814	821	820	78
15°	779	780	781	791	791	220
25°	704	708	717	734	738	324
35°	604	612	631	655	661	377
45°	486	502	532	561	568	375
55°	364	383	423	454	461	325
65°	240	265	306	330	337	238
75°	120	149	182	178	172	128
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.2	823.2	823.2	823.2	823.2
2.5°	824.3	822.1	818.6	824.3	823.2
5°	820.9	818.6	814.1	820.9	819.8
7.5°	814.1	811.8	809.5	816.3	815.2
10°	804.9	803.8	802.6	810.6	809.5
12.5°	793.5	793.5	792.3	801.5	801.5
15°	778.6	779.8	780.9	791.2	791.2
17.5°	764.9	763.8	767.2	778.6	779.8
20°	745.5	747.7	752.3	766.0	767.2
22.5°	726.0	728.3	736.3	750.0	753.5
25°	704.3	707.7	716.9	734.0	737.5
27.5°	681.4	686.0	698.6	716.9	720.3
30°	656.3	663.1	676.9	697.4	700.9
32.5°	631.1	638.0	655.1	675.7	680.3
35°	603.7	611.7	631.1	655.1	660.8
37.5°	575.1	585.4	608.3	632.3	639.1
40°	546.5	557.9	583.1	608.3	616.3
42.5°	517.9	529.4	556.8	585.4	593.4
45°	485.9	501.9	531.7	561.4	568.2
47.5°	455.0	472.2	505.4	535.1	544.2
50°	425.3	442.5	477.9	508.8	517.9
52.5°	394.5	412.7	450.5	482.5	490.5
55°	363.6	383.0	423.0	453.9	460.8
57.5°	332.7	353.3	394.5	424.2	432.2
60°	301.8	323.6	363.6	393.3	399.0
62.5°	271.0	293.8	335.0	361.3	367.0
65°	240.1	265.3	306.4	330.4	337.3
67.5°	210.4	235.5	275.5	298.4	304.1
70°	182.9	205.8	245.8	263.0	265.3
72.5°	148.6	177.2	216.1	225.2	219.5
75°	120.1	148.6	181.8	178.4	171.5
77.5°	91.5	120.1	141.8	130.3	121.2
80°	65.2	93.8	98.3	81.2	76.6
82.5°	42.3	65.2	54.9	42.3	34.3
85°	21.7	30.9	17.2	13.7	11.4
87.5°	6.9	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)