

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: P307860

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP125-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: P307860
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-CP125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB 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: 2413.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

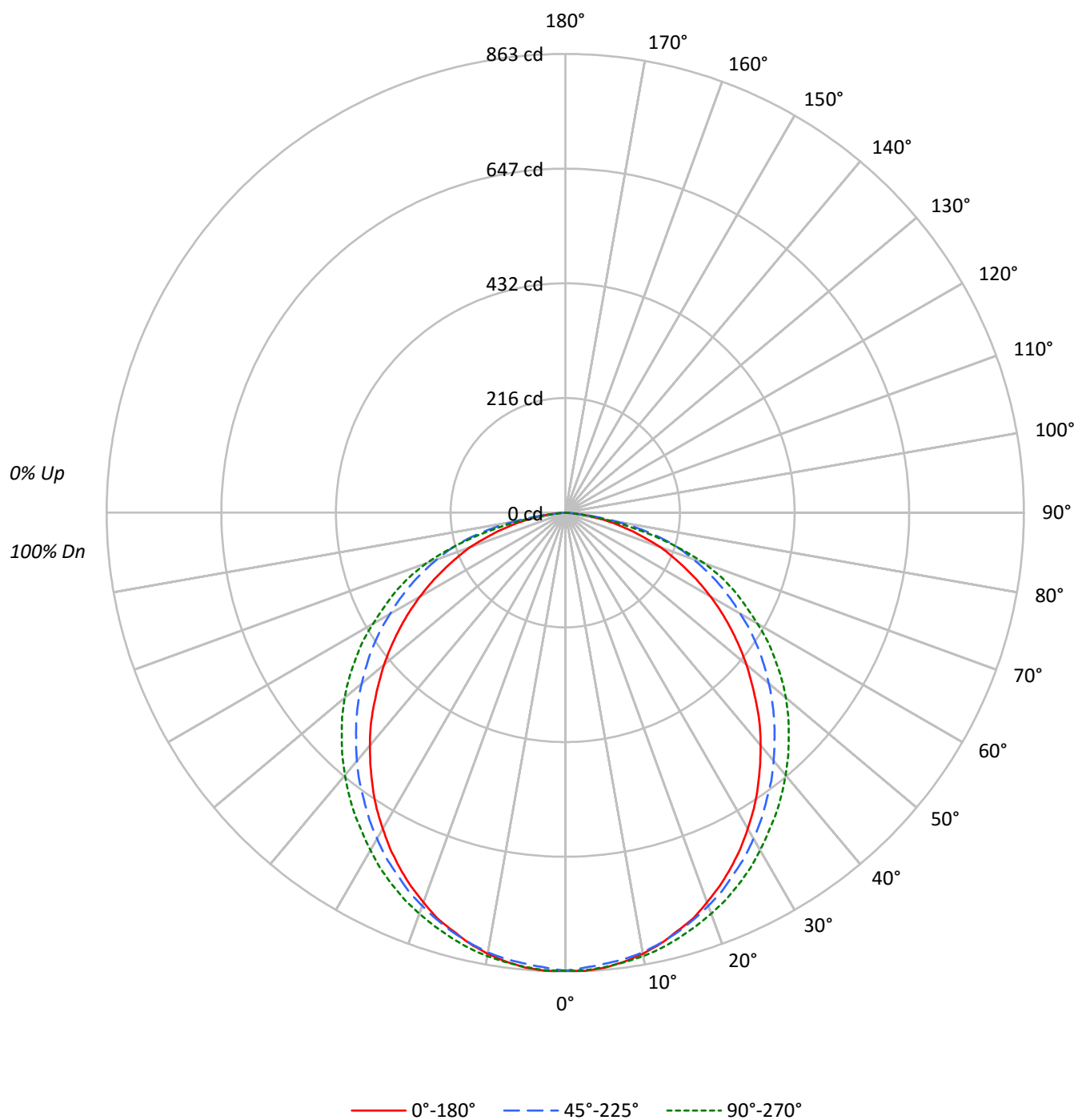
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2318	2318	2318
5°	2320	2301	2317
10°	2302	2295	2314
15°	2270	2276	2306
20°	2234	2254	2299
25°	2188	2227	2291
30°	2134	2201	2279
35°	2075	2169	2272
40°	2009	2144	2265
45°	1935	2117	2263
50°	1863	2094	2269
55°	1785	2077	2262
60°	1700	2048	2247
65°	1599	2041	2247
70°	1506	2024	2184
75°	1306	1978	1866
80°	1057	1595	1243
85°	701	553	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.4
10°-20°	231.5	9.6
20°-30°	347.2	14.4
30°-40°	414.2	17.2
40°-50°	428.2	17.7
50°-60°	390.9	16.2
60°-70°	307.6	12.7
70°-80°	179.1	7.4
80°-90°	33.0	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°	660.0	27.4
0°-40°	1074.2	44.5
0°-60°	1893.3	78.5
0°-90°	2413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	859	857	852	859	858	81
15°	815	816	817	828	828	230
25°	737	741	750	768	772	339
35°	632	640	660	686	692	395
45°	508	525	556	587	595	393
55°	380	401	443	475	482	340
65°	251	278	321	346	353	249
75°	126	156	190	187	180	134
85°	23	32	18	14	12	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.4	861.4	861.4	861.4	861.4
2.5°	862.6	860.2	856.6	862.6	861.4
5°	859.0	856.6	851.8	859.0	857.8
7.5°	851.8	849.4	847.0	854.2	853.0
10°	842.3	841.1	839.9	848.2	847.0
12.5°	830.3	830.3	829.1	838.7	838.7
15°	814.7	815.9	817.1	827.9	827.9
17.5°	800.4	799.2	802.8	814.7	815.9
20°	780.0	782.4	787.2	801.6	802.8
22.5°	759.7	762.1	770.5	784.8	788.4
25°	737.0	740.6	750.1	768.1	771.7
27.5°	713.0	717.8	731.0	750.1	753.7
30°	686.7	693.9	708.3	729.8	733.4
32.5°	660.4	667.6	685.5	707.1	711.9
35°	631.7	640.1	660.4	685.5	691.5
37.5°	601.8	612.6	636.5	661.6	668.8
40°	571.9	583.8	610.2	636.5	644.9
42.5°	542.0	553.9	582.6	612.6	620.9
45°	508.5	525.2	556.3	587.4	594.6
47.5°	476.2	494.1	528.8	559.9	569.5
50°	445.1	463.0	500.1	532.4	542.0
52.5°	412.8	431.9	471.4	504.9	513.3
55°	380.5	400.8	442.7	475.0	482.1
57.5°	348.1	369.7	412.8	443.9	452.2
60°	315.8	338.6	380.5	411.6	417.5
62.5°	283.5	307.5	350.5	378.1	384.0
65°	251.2	277.6	320.6	345.8	352.9
67.5°	220.1	246.5	288.3	312.3	318.2
70°	191.4	215.4	257.2	275.2	277.6
72.5°	155.5	185.4	226.1	235.7	229.7
75°	125.6	155.5	190.2	186.6	179.5
77.5°	95.7	125.6	148.4	136.4	126.8
80°	68.2	98.1	102.9	84.9	80.2
82.5°	44.3	68.2	57.4	44.3	35.9
85°	22.7	32.3	17.9	14.4	12.0
87.5°	7.2	4.8	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)