

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: P307857

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CP125-W2A-U-4500K**

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: P307857
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-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 4500K 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: 2351.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

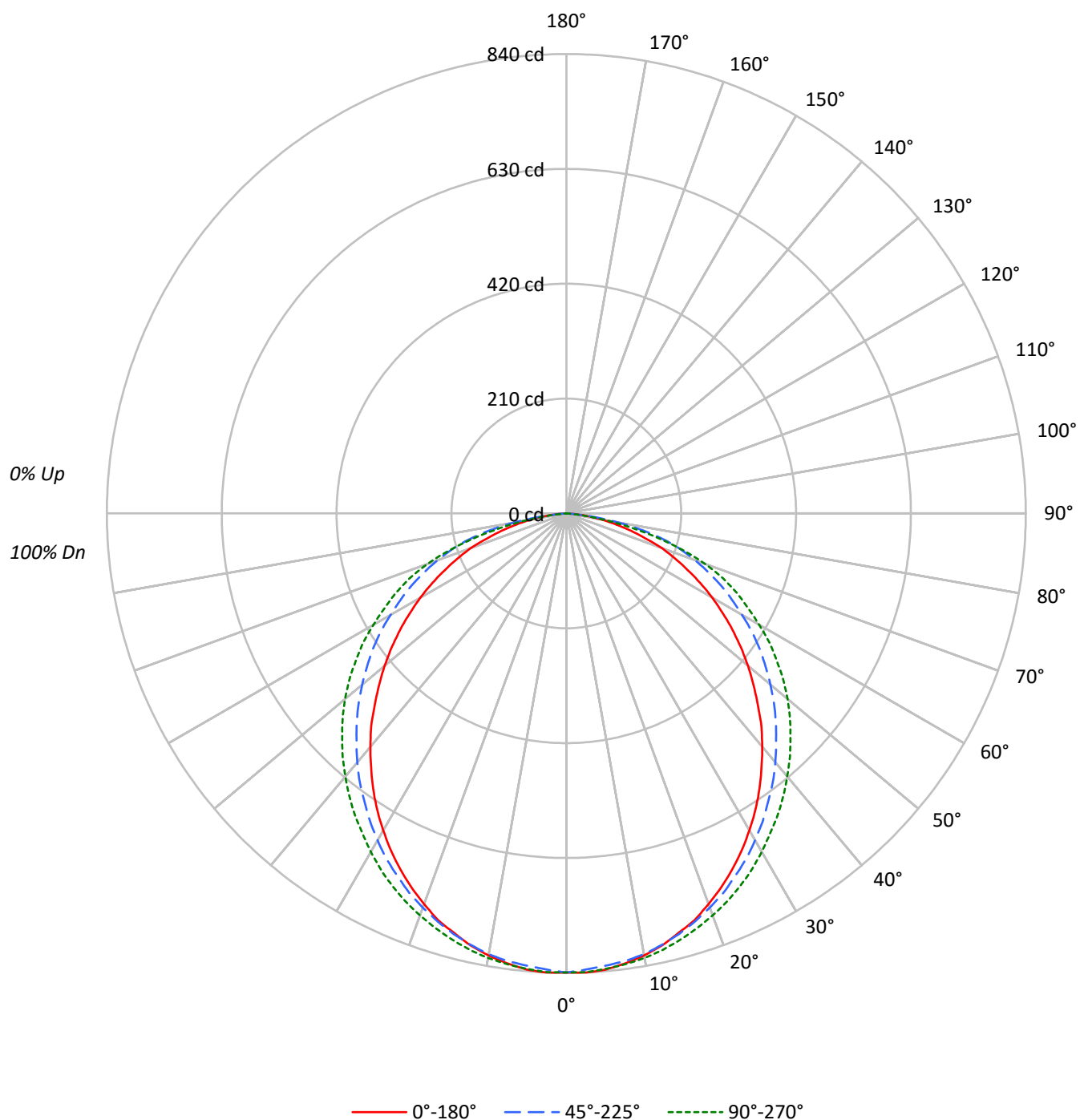
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2259	2259	2259
5°	2261	2242	2258
10°	2242	2236	2255
15°	2211	2218	2247
20°	2176	2196	2240
25°	2132	2170	2232
30°	2079	2144	2220
35°	2022	2114	2213
40°	1957	2088	2207
45°	1885	2063	2205
50°	1815	2040	2210
55°	1739	2023	2204
60°	1656	1995	2189
65°	1559	1989	2190
70°	1467	1972	2127
75°	1273	1927	1817
80°	1029	1553	1210
85°	682	540	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.4
10°-20°	225.5	9.6
20°-30°	338.3	14.4
30°-40°	403.5	17.2
40°-50°	417.2	17.7
50°-60°	380.9	16.2
60°-70°	299.7	12.7
70°-80°	174.5	7.4
80°-90°	32.1	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°	643.0	27.4
0°-40°	1046.6	44.5
0°-60°	1844.6	78.5
0°-90°	2351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	837	835	830	837	836	79
15°	794	795	796	807	807	224
25°	718	722	731	748	752	331
35°	616	624	643	668	674	385
45°	495	512	542	572	579	383
55°	371	390	431	463	470	331
65°	245	270	312	337	344	243
75°	122	152	185	182	175	130
85°	22	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°	839.3	839.3	839.3	839.3	839.3
2.5°	840.4	838.1	834.6	840.4	839.3
5°	836.9	834.6	829.9	836.9	835.8
7.5°	829.9	827.6	825.3	832.3	831.1
10°	820.6	819.5	818.3	826.4	825.3
12.5°	809.0	809.0	807.8	817.1	817.1
15°	793.8	795.0	796.1	806.6	806.6
17.5°	779.8	778.7	782.2	793.8	795.0
20°	760.0	762.3	767.0	781.0	782.2
22.5°	740.2	742.5	750.7	764.7	768.2
25°	718.0	721.5	730.9	748.3	751.8
27.5°	694.7	699.4	712.2	730.9	734.4
30°	669.1	676.1	690.1	711.0	714.5
32.5°	643.4	650.4	667.9	688.9	693.6
35°	615.5	623.6	643.4	667.9	673.7
37.5°	586.3	596.8	620.1	644.6	651.6
40°	557.2	568.8	594.5	620.1	628.3
42.5°	528.0	539.7	567.7	596.8	605.0
45°	495.4	511.7	542.0	572.3	579.3
47.5°	463.9	481.4	515.2	545.5	554.8
50°	433.6	451.1	487.2	518.7	528.0
52.5°	402.1	420.8	459.3	491.9	500.1
55°	370.7	390.5	431.3	462.8	469.8
57.5°	339.2	360.2	402.1	432.5	440.6
60°	307.7	329.9	370.7	401.0	406.8
62.5°	276.3	299.6	341.5	368.3	374.2
65°	244.8	270.4	312.4	336.9	343.9
67.5°	214.5	240.1	280.9	304.2	310.1
70°	186.5	209.8	250.6	268.1	270.4
72.5°	151.5	180.7	220.3	229.6	223.8
75°	122.4	151.5	185.3	181.8	174.8
77.5°	93.3	122.4	144.5	132.9	123.6
80°	66.4	95.6	100.2	82.8	78.1
82.5°	43.1	66.4	56.0	43.1	35.0
85°	22.1	31.5	17.5	14.0	11.7
87.5°	7.0	4.7	2.3	2.3	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)