

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: P307494

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-3000K**

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: P307494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 2460.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

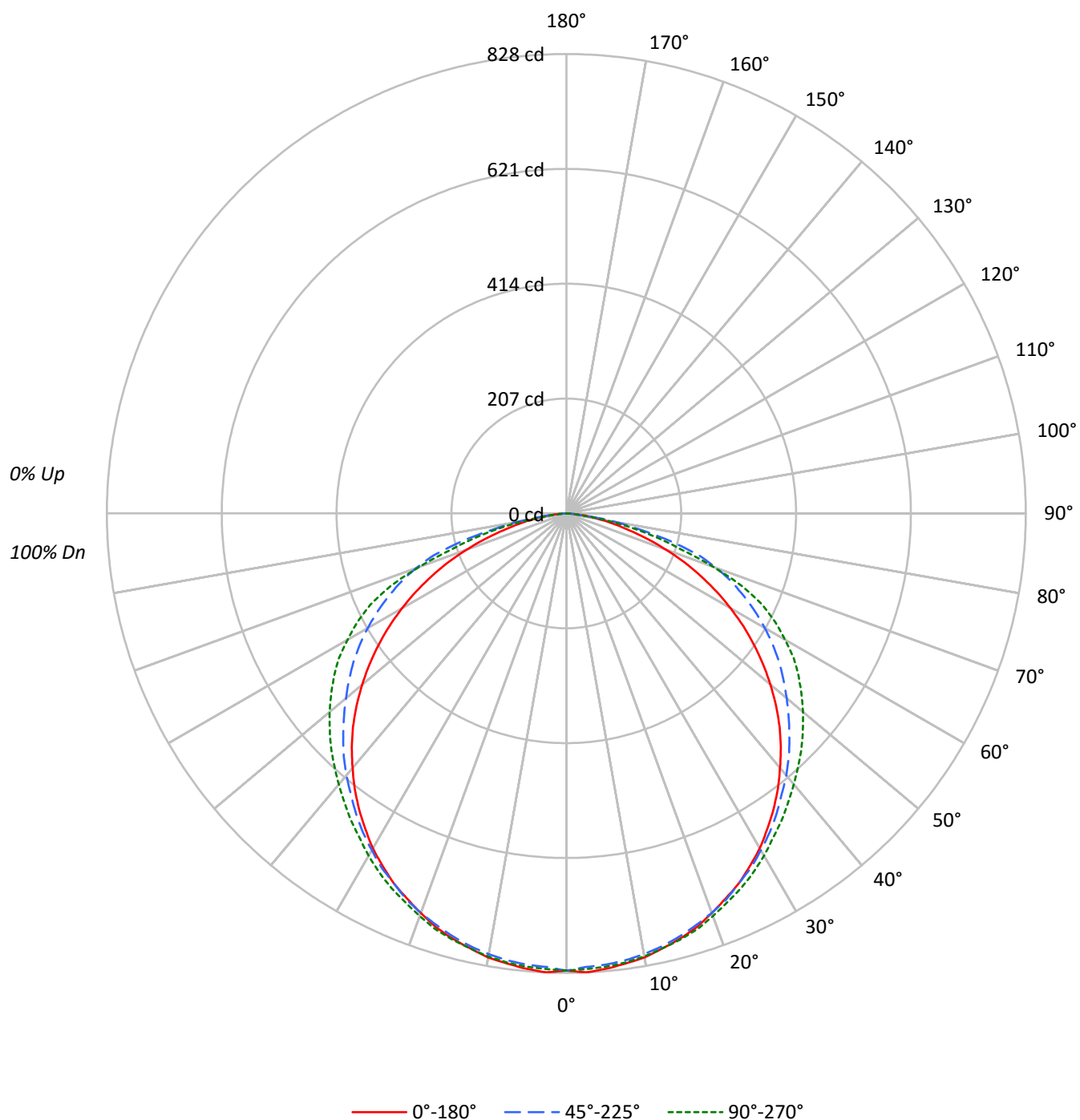
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2217	2217	2217
5°	2226	2205	2215
10°	2220	2204	2215
15°	2210	2199	2215
20°	2194	2194	2211
25°	2184	2184	2213
30°	2166	2178	2214
35°	2139	2170	2221
40°	2105	2166	2240
45°	2068	2163	2280
50°	2010	2171	2332
55°	1937	2198	2397
60°	1840	2222	2450
65°	1700	2250	2483
70°	1511	2267	2221
75°	1219	2037	1777
80°	953	1429	1161
85°	651	414	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.2
10°-20°	223.7	9.1
20°-30°	340.7	13.8
30°-40°	415.0	16.9
40°-50°	440.2	17.9
50°-60°	415.5	16.9
60°-70°	335.5	13.6
70°-80°	182.0	7.4
80°-90°	29.4	1.2
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°	642.4	26.1
0°-40°	1057.4	43.0
0°-60°	1913.1	77.8
0°-90°	2460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	824	822	816	822	820	78
15°	793	791	789	795	795	224
25°	736	734	736	743	745	339
35°	651	655	661	674	676	407
45°	544	551	568	590	599	419
55°	413	430	469	499	511	369
65°	267	300	353	382	390	265
75°	117	171	196	177	171	128
85°	21	23	13	12	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.9	823.9	823.9	823.9	823.9
2.5°	827.8	823.9	818.2	823.9	822.0
5°	823.9	822.0	816.2	822.0	820.1
7.5°	818.2	818.2	812.4	816.2	816.2
10°	812.4	810.5	806.6	812.4	810.5
12.5°	802.8	800.9	798.9	804.7	802.8
15°	793.2	791.3	789.3	795.1	795.1
17.5°	781.7	779.7	777.8	785.5	785.5
20°	766.3	766.3	766.3	774.0	772.1
22.5°	750.9	750.9	752.9	760.5	758.6
25°	735.6	733.7	735.6	743.3	745.2
27.5°	716.4	718.3	720.2	727.9	729.8
30°	697.2	699.1	701.0	710.6	712.5
32.5°	674.1	678.0	681.8	693.3	693.3
35°	651.1	654.9	660.7	674.1	676.0
37.5°	626.1	629.9	637.6	653.0	656.8
40°	599.2	605.0	616.5	631.9	637.6
42.5°	572.3	580.0	593.5	610.7	618.4
45°	543.5	551.2	568.5	589.6	599.2
47.5°	512.8	522.4	543.5	570.4	578.1
50°	480.1	493.6	518.5	547.4	557.0
52.5°	447.5	462.9	493.6	524.3	533.9
55°	412.9	430.2	468.6	499.3	510.9
57.5°	378.3	397.6	441.7	474.4	485.9
60°	341.9	364.9	412.9	445.6	455.2
62.5°	305.4	332.3	384.1	416.8	424.4
65°	267.0	299.6	353.4	382.2	389.9
67.5°	230.5	268.9	322.7	343.8	343.8
70°	192.1	234.3	288.1	293.8	282.3
72.5°	153.6	201.7	249.7	228.5	218.9
75°	117.2	170.9	195.9	176.7	170.9
77.5°	88.3	138.3	138.3	126.8	122.9
80°	61.5	105.6	92.2	80.7	74.9
82.5°	40.3	59.5	48.0	38.4	32.6
85°	21.1	23.0	13.4	11.5	9.6
87.5°	7.7	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)