

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: METALUX

Report Number: P271905

Luminaire Tested: **14CZ2-35-UNV-L930-CD1-U**

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: P271905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE, RIBBED LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

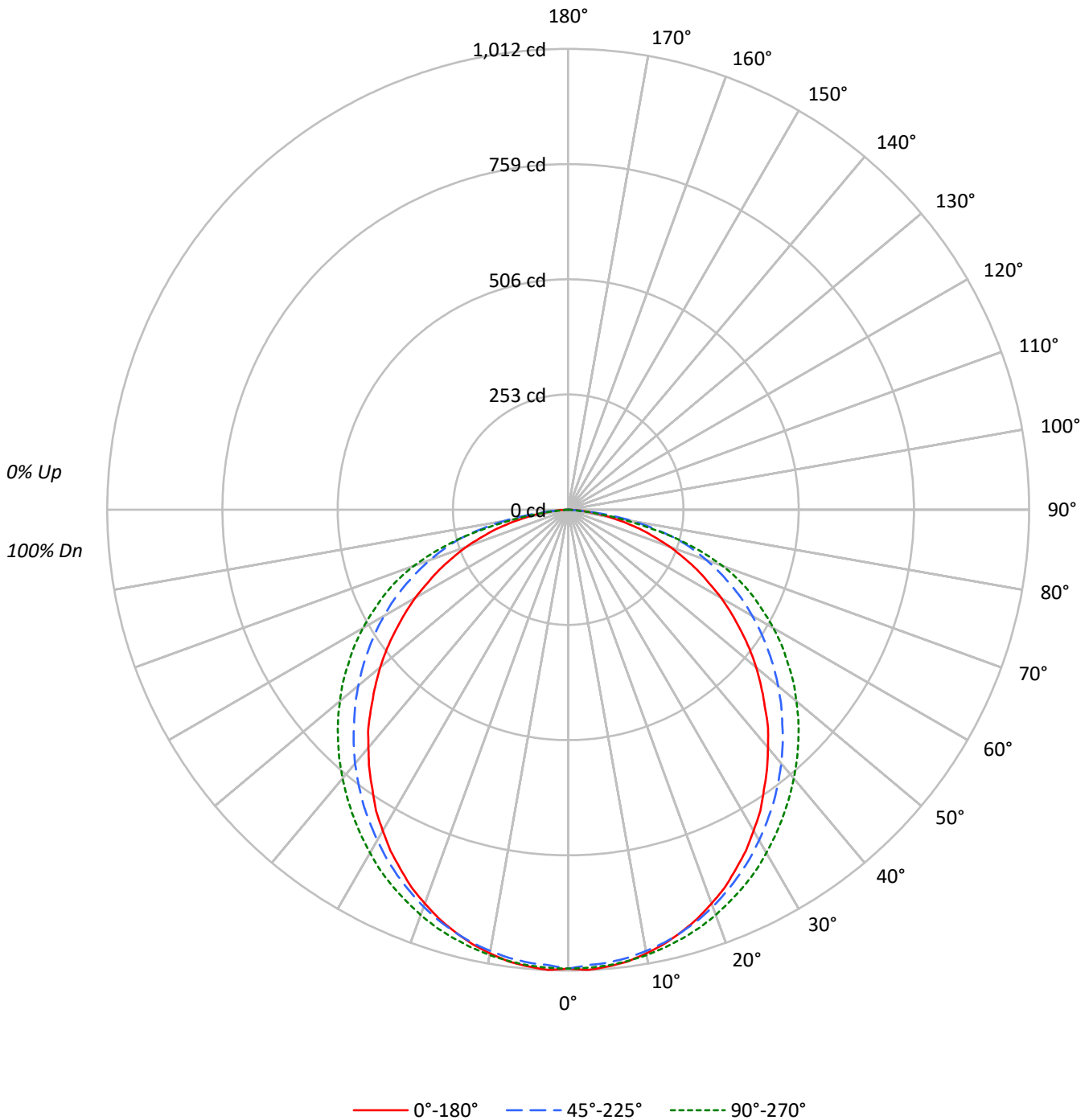
Lumens per Lamp: N/A
Luminaire Lumens: 2925.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2712	2712	2712
5°	2720	2697	2713
10°	2704	2689	2714
15°	2675	2676	2713
20°	2635	2658	2712
25°	2585	2632	2709
30°	2529	2604	2704
35°	2462	2582	2702
40°	2396	2557	2706
45°	2323	2529	2720
50°	2255	2517	2739
55°	2169	2509	2763
60°	2092	2513	2801
65°	1985	2521	2845
70°	1863	2540	2843
75°	1688	2563	2570
80°	1385	2213	1830
85°	1028	1047	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.3
10°-20°	272.4	9.3
20°-30°	410.3	14.0
30°-40°	492.4	16.8
40°-50°	513.2	17.5
50°-60°	475.1	16.2
60°-70°	383.9	13.1
70°-80°	234.0	8.0
80°-90°	48.3	1.7
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°	778.1	26.6
0°-40°	1270.4	43.4
0°-60°	2258.7	77.2
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1007	1004	998	1006	1004	96
15°	960	961	961	974	974	271
25°	871	876	886	908	912	401
35°	749	761	786	815	822	469
45°	610	629	665	702	715	472
55°	462	487	535	577	589	414
65°	312	342	396	436	447	308
75°	162	198	246	250	247	171
85°	33	50	34	19	14	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1011.6	1008.3	1001.1	1008.3	1007.0
5°	1007.0	1004.4	998.5	1005.7	1004.4
7.5°	1000.5	997.9	992.7	1001.1	999.8
10°	989.4	988.1	984.2	994.0	993.3
12.5°	976.4	975.7	973.8	984.8	984.2
15°	960.1	960.7	960.7	973.8	973.8
17.5°	941.8	943.1	945.7	960.1	962.0
20°	920.3	922.9	928.1	944.4	947.0
22.5°	898.1	900.1	907.9	927.4	930.1
25°	870.7	875.9	886.4	908.5	912.4
27.5°	844.6	849.2	863.5	886.4	892.9
30°	814.0	821.1	838.1	862.9	870.1
32.5°	784.6	792.4	812.0	840.7	847.2
35°	749.4	761.1	785.9	814.6	822.4
37.5°	717.4	728.5	756.6	787.9	797.0
40°	682.2	695.9	727.9	761.1	770.3
42.5°	649.6	662.7	697.2	731.1	743.5
45°	610.5	628.7	664.6	701.8	714.8
47.5°	574.6	592.9	634.0	673.7	685.5
50°	538.7	558.3	601.3	642.4	654.2
52.5°	501.6	522.4	568.7	609.8	623.5
55°	462.4	486.6	534.8	576.6	589.0
57.5°	425.2	450.0	501.6	543.9	556.3
60°	388.7	414.2	467.0	507.4	520.5
62.5°	348.3	378.3	433.1	472.9	482.6
65°	311.8	342.4	395.9	435.7	446.8
67.5°	273.3	306.5	360.0	396.5	407.0
70°	236.8	271.3	322.8	356.8	361.3
72.5°	197.6	232.8	285.0	306.5	306.5
75°	162.4	198.3	246.5	250.5	247.2
77.5°	123.9	163.7	195.0	187.2	179.4
80°	89.4	128.5	142.8	128.5	118.1
82.5°	60.0	93.3	86.1	68.5	60.7
85°	33.3	49.6	33.9	18.9	13.7
87.5°	12.4	11.1	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)