

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: P271941

Luminaire Tested: **14CZ2-35-S-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: P271941
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: METALUX
Catalog Number: 14CZ2-35-S-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

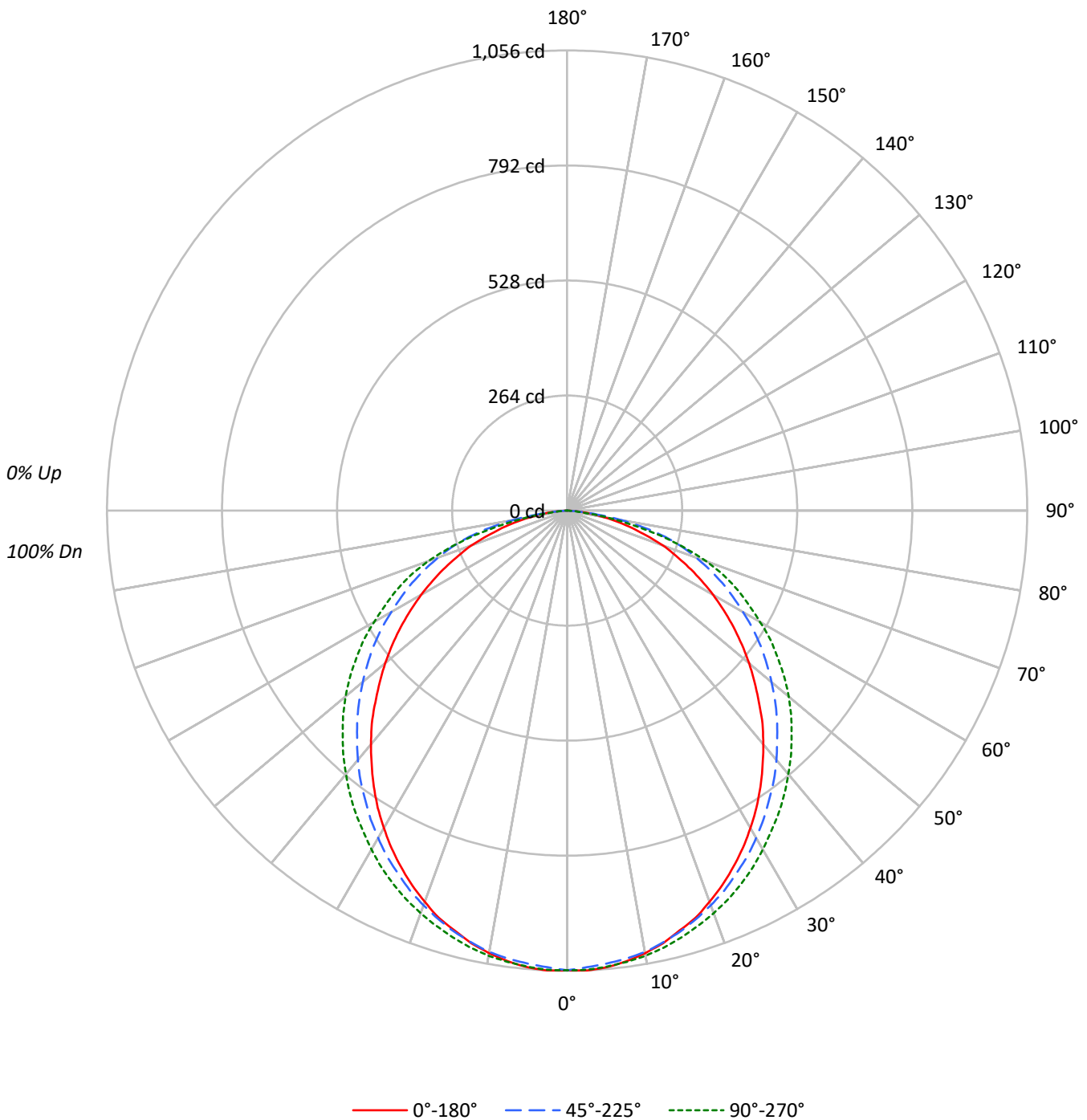
Lumens per Lamp: N/A
Luminaire Lumens: 2955.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2839	2839	2839
5°	2842	2818	2838
10°	2818	2810	2834
15°	2779	2788	2825
20°	2736	2761	2815
25°	2680	2727	2806
30°	2613	2695	2791
35°	2541	2657	2782
40°	2460	2625	2774
45°	2370	2593	2771
50°	2282	2564	2779
55°	2186	2543	2770
60°	2082	2507	2752
65°	1959	2500	2752
70°	1844	2478	2674
75°	1599	2423	2285
80°	1294	1953	1522
85°	858	679	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.4
10°-20°	283.5	9.6
20°-30°	425.2	14.4
30°-40°	507.2	17.2
40°-50°	524.4	17.7
50°-60°	478.7	16.2
60°-70°	376.7	12.7
70°-80°	219.3	7.4
80°-90°	40.4	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°	808.3	27.4
0°-40°	1315.4	44.5
0°-60°	2318.5	78.5
0°-90°	2955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1052	1049	1043	1052	1050	100
15°	998	999	1001	1014	1014	282
25°	902	907	919	941	945	416
35°	774	784	809	840	847	484
45°	623	643	681	719	728	481
55°	466	491	542	582	590	417
65°	308	340	393	423	432	306
75°	154	190	233	229	220	164
85°	28	40	22	18	15	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	1056.4	1053.4	1049.0	1056.4	1054.9
5°	1052.0	1049.0	1043.2	1052.0	1050.5
7.5°	1043.2	1040.2	1037.3	1046.1	1044.6
10°	1031.4	1030.0	1028.5	1038.8	1037.3
12.5°	1016.8	1016.8	1015.3	1027.0	1027.0
15°	997.7	999.2	1000.7	1013.9	1013.9
17.5°	980.2	978.7	983.1	997.7	999.2
20°	955.3	958.2	964.0	981.6	983.1
22.5°	930.4	933.3	943.5	961.1	965.5
25°	902.5	906.9	918.6	940.6	945.0
27.5°	873.2	879.1	895.2	918.6	923.0
30°	841.0	849.8	867.4	893.7	898.1
32.5°	808.7	817.5	839.5	865.9	871.7
35°	773.6	783.8	808.7	839.5	846.8
37.5°	737.0	750.1	779.4	810.2	819.0
40°	700.3	715.0	747.2	779.4	789.7
42.5°	663.7	678.4	713.5	750.1	760.4
45°	622.7	643.2	681.3	719.4	728.2
47.5°	583.1	605.1	647.6	685.7	697.4
50°	545.0	567.0	612.4	652.0	663.7
52.5°	505.5	528.9	577.3	618.3	628.5
55°	465.9	490.8	542.1	581.7	590.4
57.5°	426.3	452.7	505.5	543.6	553.8
60°	386.8	414.6	465.9	504.0	511.3
62.5°	347.2	376.5	429.3	463.0	470.3
65°	307.7	339.9	392.7	423.4	432.2
67.5°	269.6	301.8	353.1	382.4	389.7
70°	234.4	263.7	315.0	337.0	339.9
72.5°	190.5	227.1	276.9	288.6	281.3
75°	153.8	190.5	233.0	228.6	219.8
77.5°	117.2	153.8	181.7	167.0	155.3
80°	83.5	120.1	126.0	104.0	98.2
82.5°	54.2	83.5	70.3	54.2	44.0
85°	27.8	39.6	22.0	17.6	14.7
87.5°	8.8	5.9	2.9	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)