

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: P271908

Luminaire Tested: **14CZ2-35-UNV-L950-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: P271908
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-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE, RIBBED LENS, 90CRI
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

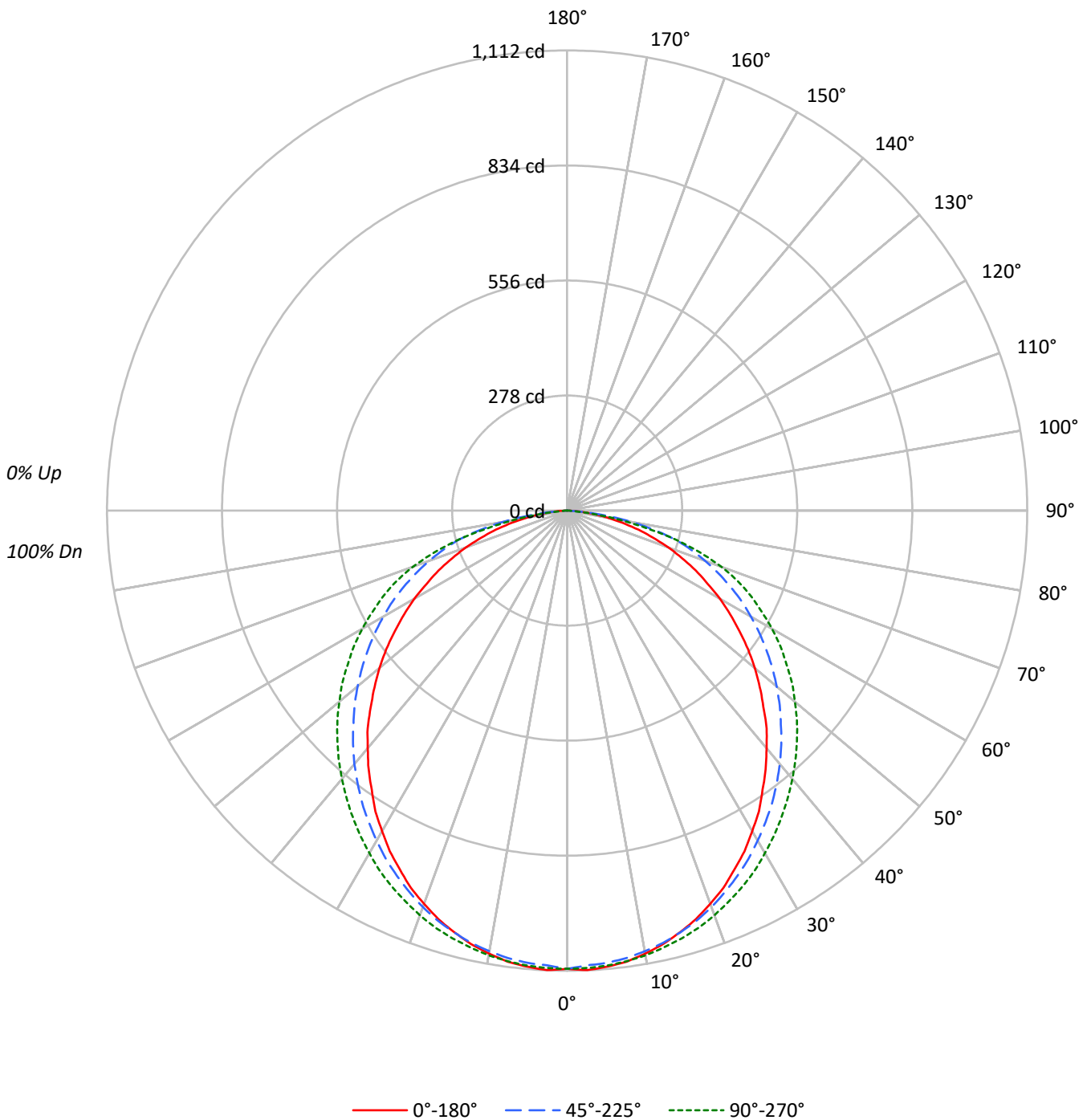
Lumens per Lamp: N/A
Luminaire Lumens: 3214.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2979	2979	2979
5°	2989	2964	2981
10°	2971	2955	2983
15°	2939	2941	2981
20°	2896	2920	2980
25°	2841	2892	2977
30°	2779	2861	2971
35°	2705	2837	2969
40°	2633	2810	2973
45°	2553	2779	2989
50°	2478	2766	3009
55°	2384	2757	3036
60°	2299	2761	3078
65°	2181	2770	3126
70°	2046	2791	3124
75°	1855	2817	2824
80°	1522	2431	2010
85°	1127	1152	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	299.3	9.3
20°-30°	450.9	14.0
30°-40°	541.0	16.8
40°-50°	563.9	17.5
50°-60°	522.0	16.2
60°-70°	421.8	13.1
70°-80°	257.2	8.0
80°-90°	53.1	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°	854.9	26.6
0°-40°	1396.0	43.4
0°-60°	2481.9	77.2
0°-90°	3214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1106	1104	1097	1105	1104	105
15°	1055	1056	1056	1070	1070	297
25°	957	962	974	998	1003	441
35°	823	836	864	895	904	516
45°	671	691	730	771	786	518
55°	508	535	588	634	647	455
65°	343	376	435	479	491	339
75°	178	218	271	275	272	187
85°	36	54	37	21	15	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.2	1107.2	1107.2	1107.2	1107.2
2.5°	1111.5	1108.0	1100.1	1108.0	1106.5
5°	1106.5	1103.7	1097.2	1105.1	1103.7
7.5°	1099.4	1096.5	1090.8	1100.1	1098.6
10°	1087.2	1085.7	1081.4	1092.2	1091.5
12.5°	1072.8	1072.1	1070.0	1082.2	1081.4
15°	1054.9	1055.6	1055.6	1070.0	1070.0
17.5°	1034.9	1036.3	1039.2	1054.9	1057.1
20°	1011.2	1014.1	1019.8	1037.7	1040.6
22.5°	986.8	989.0	997.6	1019.1	1022.0
25°	956.7	962.5	973.9	998.3	1002.6
27.5°	928.1	933.1	948.9	973.9	981.1
30°	894.4	902.3	920.9	948.1	956.0
32.5°	862.1	870.7	892.2	923.8	930.9
35°	823.4	836.3	863.6	895.1	903.7
37.5°	788.3	800.5	831.3	865.7	875.8
40°	749.6	764.7	799.8	836.3	846.4
42.5°	713.8	728.1	766.1	803.4	817.0
45°	670.8	690.9	730.3	771.1	785.5
47.5°	631.4	651.4	696.6	740.3	753.2
50°	592.0	613.5	660.8	705.9	718.8
52.5°	551.1	574.0	624.9	670.1	685.1
55°	508.1	534.6	587.7	633.5	647.1
57.5°	467.3	494.5	551.1	597.7	611.3
60°	427.1	455.1	513.1	557.6	571.9
62.5°	382.7	415.7	475.9	519.6	530.3
65°	342.6	376.2	435.0	478.7	490.9
67.5°	300.3	336.8	395.6	435.7	447.2
70°	260.1	298.1	354.7	392.0	397.0
72.5°	217.1	255.8	313.2	336.8	336.8
75°	178.4	217.9	270.9	275.2	271.6
77.5°	136.2	179.9	214.3	205.7	197.1
80°	98.2	141.2	156.9	141.2	129.7
82.5°	65.9	102.5	94.6	75.2	66.6
85°	36.5	54.5	37.3	20.8	15.0
87.5°	13.6	12.2	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)