

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: P229685

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3311.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

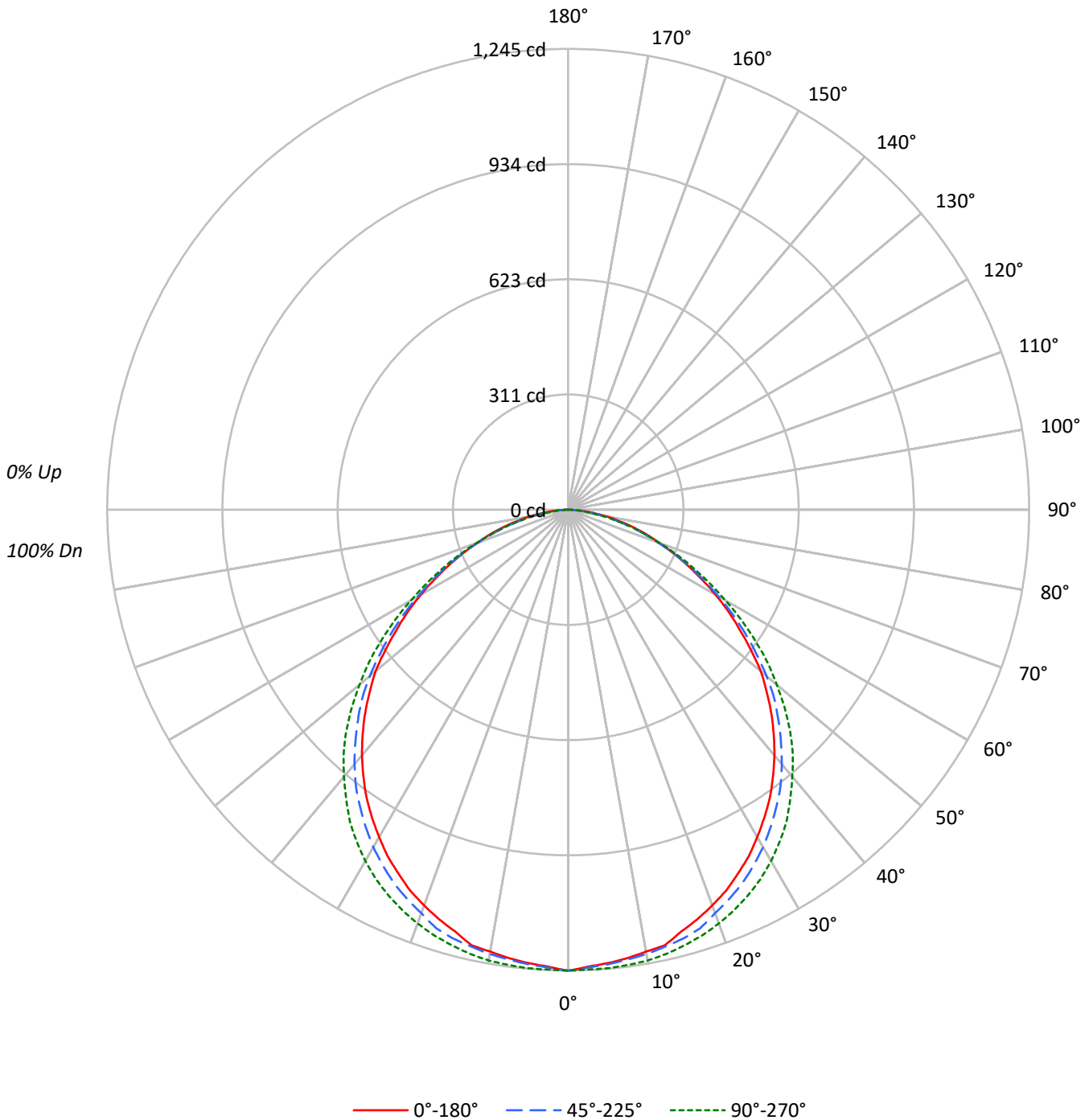
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3989	3989	3989
5°	3954	3963	3998
10°	3942	3964	4021
15°	3912	3977	4038
20°	3877	3954	4054
25°	3833	3934	4062
30°	3776	3892	4052
35°	3713	3832	4020
40°	3623	3753	3938
45°	3512	3636	3840
50°	3386	3483	3664
55°	3160	3264	3444
60°	2941	2998	3142
65°	2693	2716	2827
70°	2438	2402	2466
75°	2230	2071	2096
80°	1986	1697	1643
85°	1584	1150	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.5
10°-20°	338.2	10.2
20°-30°	514.0	15.5
30°-40°	615.1	18.6
40°-50°	621.2	18.8
50°-60°	524.1	15.8
60°-70°	357.8	10.8
70°-80°	181.5	5.5
80°-90°	41.8	1.3
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°	969.6	29.3
0°-40°	1584.7	47.9
0°-60°	2729.9	82.4
0°-90°	3311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1230	1230	1233	1239	1244	117
15°	1180	1185	1199	1208	1218	333
25°	1085	1095	1113	1137	1150	500
35°	950	958	980	1010	1028	593
45°	776	779	803	834	848	598
55°	566	565	584	606	617	507
65°	355	350	358	365	373	353
75°	180	169	167	166	169	191
85°	43	37	31	28	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1235.6	1235.6	1237.6	1244.4	1243.5
5°	1229.8	1229.8	1232.7	1238.6	1243.5
7.5°	1221.9	1222.9	1225.8	1234.6	1240.5
10°	1212.1	1213.1	1219.0	1227.8	1236.6
12.5°	1205.3	1206.3	1209.2	1220.0	1228.8
15°	1179.8	1184.7	1199.4	1208.2	1218.0
17.5°	1160.2	1166.1	1185.7	1193.5	1205.3
20°	1137.7	1144.6	1160.2	1177.9	1189.6
22.5°	1114.2	1122.1	1137.7	1158.3	1171.0
25°	1084.8	1094.6	1113.2	1136.7	1149.5
27.5°	1055.5	1065.3	1083.9	1116.2	1125.0
30°	1021.2	1032.0	1052.5	1083.9	1095.6
32.5°	986.0	995.7	1017.3	1049.6	1063.3
35°	949.7	957.6	980.1	1010.4	1028.1
37.5°	908.6	916.4	941.9	971.3	985.0
40°	866.5	872.4	897.8	927.2	941.9
42.5°	821.5	827.3	850.8	881.2	897.8
45°	775.5	779.4	802.9	834.2	847.9
47.5°	726.5	730.4	754.9	780.3	793.1
50°	679.5	677.5	699.1	722.6	735.3
52.5°	621.7	622.7	641.3	663.8	678.5
55°	565.9	564.9	584.5	606.1	616.8
57.5°	514.0	510.1	526.8	541.4	554.2
60°	459.2	455.3	468.0	483.7	490.5
62.5°	406.3	401.4	414.2	423.0	429.8
65°	355.4	350.5	358.4	365.2	373.0
67.5°	307.4	301.6	308.4	312.3	318.2
70°	260.4	255.5	256.5	261.4	263.4
72.5°	220.3	210.5	211.5	211.5	214.4
75°	180.2	169.4	167.4	166.4	169.4
77.5°	140.0	131.2	128.3	127.3	127.3
80°	107.7	96.0	92.0	89.1	89.1
82.5°	70.5	66.6	59.7	55.8	53.9
85°	43.1	37.2	31.3	28.4	27.4
87.5°	16.6	13.7	11.7	11.7	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)