

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: P229577

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

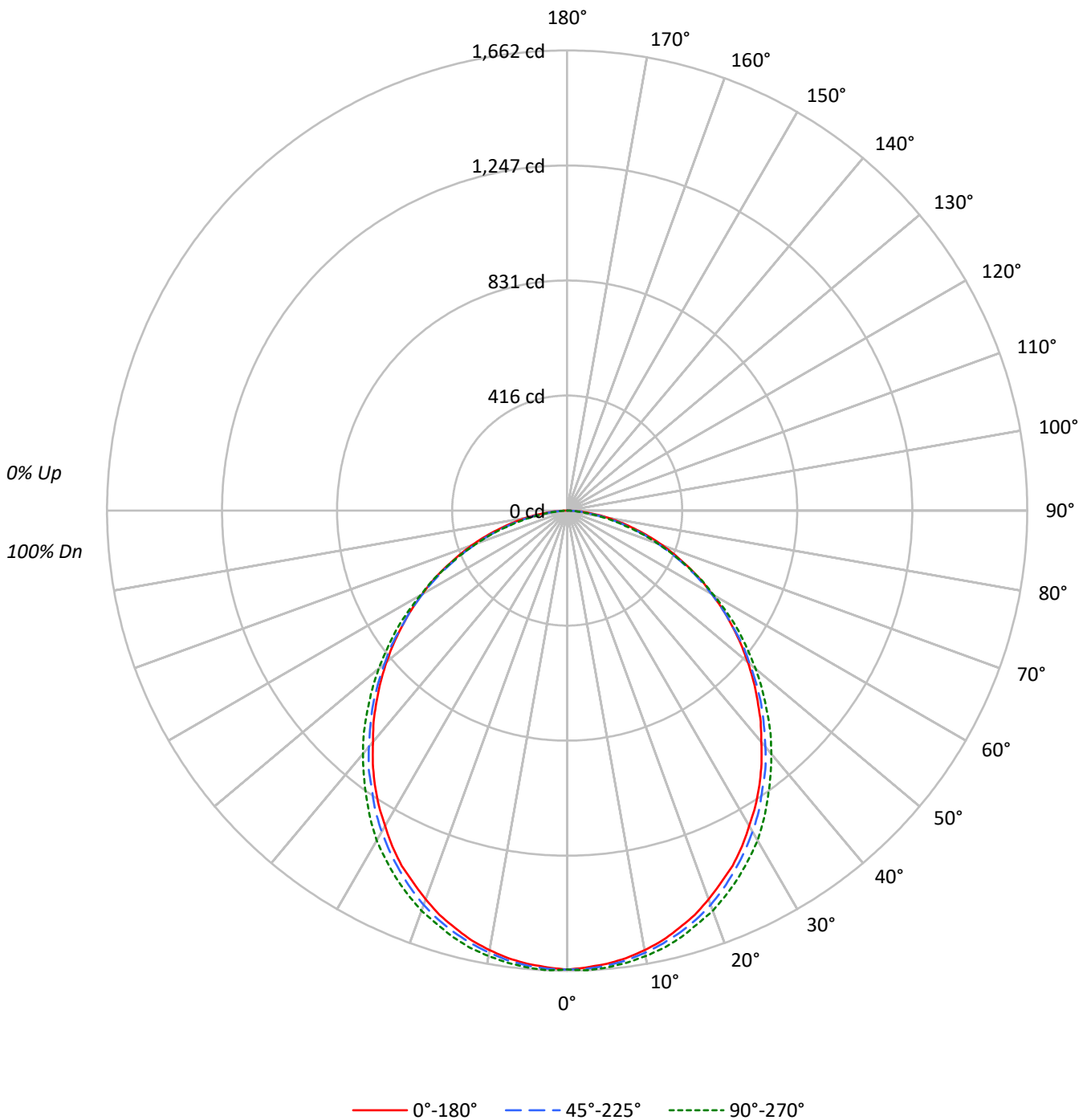
Lumens per Lamp: N/A
Luminaire Lumens: 4238.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	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	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5309	5309	5309
5°	5282	5304	5325
10°	5243	5273	5312
15°	5176	5229	5287
20°	5091	5165	5242
25°	4999	5065	5170
30°	4864	4953	5087
35°	4732	4806	4943
40°	4561	4656	4797
45°	4405	4490	4618
50°	4243	4290	4424
55°	4065	4073	4216
60°	3872	3855	3916
65°	3665	3584	3634
70°	3435	3258	3271
75°	3108	2860	2777
80°	2750	2403	2230
85°	2223	1679	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.7
10°-20°	444.8	10.5
20°-30°	661.1	15.6
30°-40°	771.7	18.2
40°-50°	766.0	18.1
50°-60°	657.3	15.5
60°-70°	471.8	11.1
70°-80°	250.0	5.9
80°-90°	58.6	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°	1262.5	29.8
0°-40°	2034.3	48.0
0°-60°	3457.6	81.6
0°-90°	4238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1643	1646	1650	1655	1656	156
15°	1561	1566	1577	1589	1595	440
25°	1415	1419	1433	1455	1463	650
35°	1210	1214	1229	1256	1264	756
45°	973	977	991	1009	1020	751
55°	728	724	730	746	755	651
65°	484	472	473	477	480	480
75°	251	239	231	228	224	267
85°	60	52	46	39	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.8	1657.8	1657.8	1657.8	1657.8
2.5°	1651.1	1652.4	1656.4	1660.5	1661.8
5°	1643.0	1645.7	1649.7	1655.1	1656.4
7.5°	1630.9	1633.6	1639.0	1644.4	1647.0
10°	1612.1	1616.1	1621.5	1630.9	1633.6
12.5°	1590.6	1593.3	1601.4	1612.1	1617.5
15°	1561.1	1566.4	1577.2	1589.3	1594.6
17.5°	1531.5	1535.5	1549.0	1561.1	1565.1
20°	1493.9	1502.0	1515.4	1530.2	1538.2
22.5°	1453.6	1460.3	1476.4	1493.9	1502.0
25°	1414.6	1418.7	1433.4	1454.9	1463.0
27.5°	1367.6	1371.6	1387.8	1409.3	1420.0
30°	1315.2	1321.9	1339.4	1363.6	1375.7
32.5°	1265.5	1270.9	1288.3	1309.8	1321.9
35°	1210.4	1214.5	1229.2	1256.1	1264.2
37.5°	1152.7	1156.7	1176.8	1197.0	1206.4
40°	1090.9	1096.2	1113.7	1133.9	1147.3
42.5°	1034.4	1037.1	1051.9	1074.7	1086.8
45°	972.6	976.7	991.4	1008.9	1019.7
47.5°	913.5	912.2	927.0	947.1	955.2
50°	851.7	849.0	861.1	881.3	888.0
52.5°	789.9	785.9	799.3	814.1	819.5
55°	728.1	724.1	729.5	745.6	755.0
57.5°	667.7	661.0	667.7	675.7	683.8
60°	604.5	593.8	601.9	611.3	611.3
62.5°	546.8	534.7	538.7	545.4	549.5
65°	483.6	471.5	472.9	476.9	479.6
67.5°	424.5	412.4	409.7	411.1	412.4
70°	366.8	353.3	347.9	345.3	349.3
72.5°	307.6	294.2	291.5	286.2	287.5
75°	251.2	239.1	231.1	228.4	224.4
77.5°	197.5	186.7	180.0	172.0	170.6
80°	149.1	135.7	130.3	124.9	120.9
82.5°	104.8	92.7	83.3	77.9	73.9
85°	60.5	52.4	45.7	39.0	39.0
87.5°	24.2	18.8	16.1	14.8	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)