

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: P296538

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-44-UNV-L92765-W2A1-U-5500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4116.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

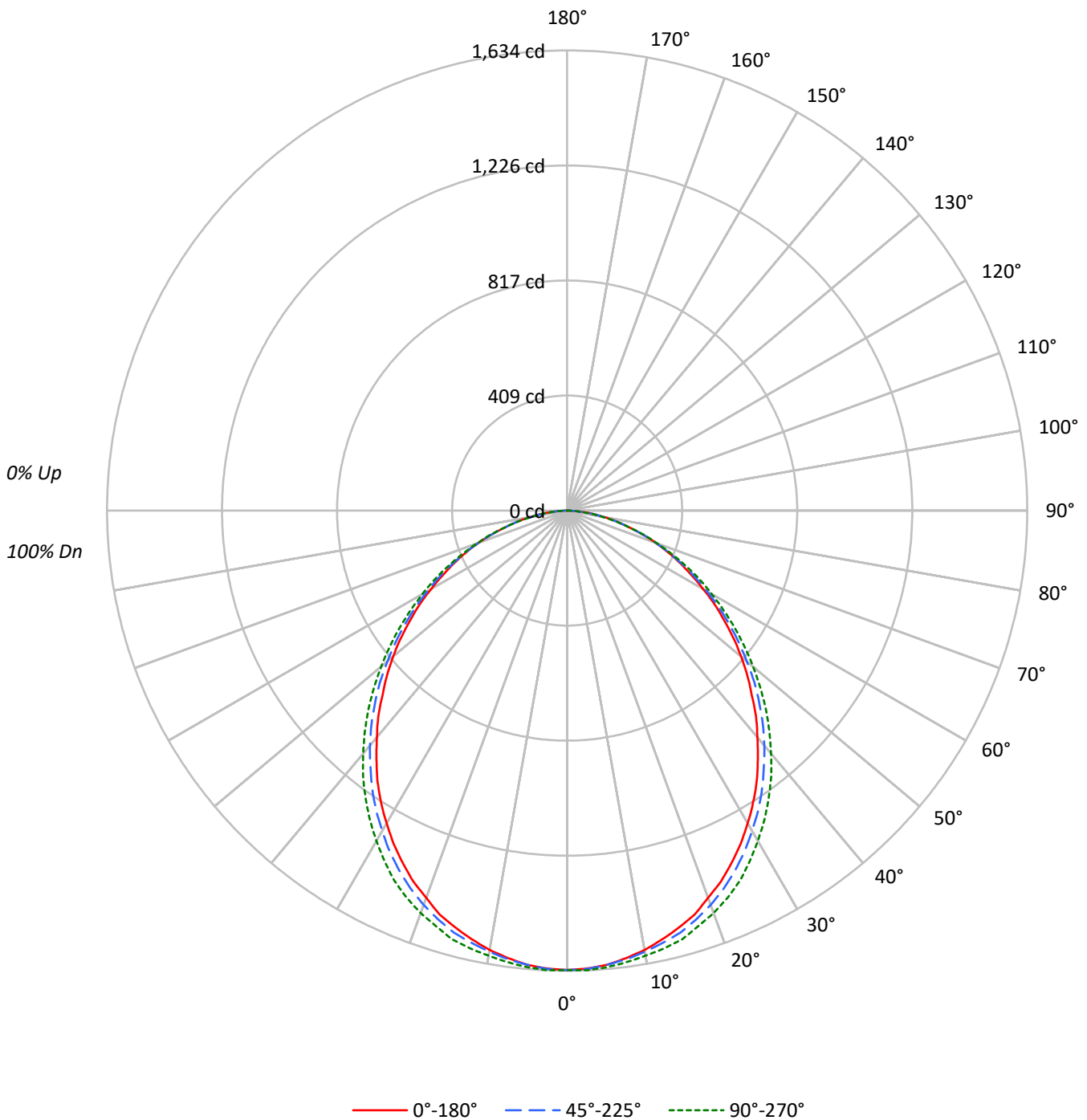
Input Watts (W): 36.642  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
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°	4390	4390	4390
5°	4374	4374	4396
10°	4329	4346	4385
15°	4271	4322	4391
20°	4190	4267	4355
25°	4101	4186	4308
30°	3985	4081	4208
35°	3856	3964	4099
40°	3691	3828	3958
45°	3530	3671	3796
50°	3376	3488	3608
55°	3196	3293	3408
60°	3004	3082	3192
65°	2823	2875	2966
70°	2632	2632	2681
75°	2347	2347	2347
80°	2067	2004	2004
85°	1649	1584	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	3.7
10°-20°	437.4	10.6
20°-30°	649.8	15.8
30°-40°	754.2	18.3
40°-50°	742.6	18.0
50°-60°	628.4	15.3
60°-70°	448.2	10.9
70°-80°	240.8	5.9
80°-90°	60.7	1.5
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°	1241.1	30.2
0°-40°	1995.3	48.5
0°-60°	3366.3	81.8
0°-90°	4116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1619	1619	1619	1625	1627	153
15°	1533	1537	1552	1566	1576	432
25°	1381	1385	1410	1436	1451	636
35°	1174	1176	1207	1235	1248	732
45°	928	934	964	987	997	717
55°	681	683	702	720	726	610
65°	443	443	452	460	466	440
75°	226	224	226	226	226	242
85°	53	51	51	47	47	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1631.5	1631.5	1631.5	1631.5	1631.5
2.5°	1627.4	1627.4	1629.4	1631.5	1633.5
5°	1619.2	1619.2	1619.2	1625.3	1627.4
7.5°	1602.8	1604.8	1606.9	1613.0	1617.1
10°	1584.3	1586.3	1590.4	1600.7	1604.8
12.5°	1559.7	1565.8	1572.0	1586.3	1592.5
15°	1533.0	1537.1	1551.5	1565.8	1576.1
17.5°	1504.3	1506.3	1522.7	1543.2	1547.4
20°	1463.2	1469.4	1489.9	1510.4	1520.7
22.5°	1426.3	1430.4	1453.0	1479.6	1487.8
25°	1381.1	1385.2	1409.9	1436.5	1450.9
27.5°	1333.9	1338.0	1364.7	1393.4	1403.7
30°	1282.6	1286.7	1313.4	1344.2	1354.4
32.5°	1229.3	1233.4	1262.1	1288.8	1303.1
35°	1173.9	1175.9	1206.7	1235.4	1247.7
37.5°	1112.3	1118.4	1147.2	1175.9	1190.3
40°	1050.7	1056.9	1089.7	1116.4	1126.7
42.5°	993.3	1001.5	1028.1	1052.8	1063.0
45°	927.6	933.7	964.5	987.1	997.4
47.5°	868.1	874.2	900.9	923.5	929.6
50°	806.5	810.6	833.2	853.7	861.9
52.5°	744.9	747.0	767.5	788.0	794.2
55°	681.3	683.4	701.8	720.3	726.5
57.5°	621.8	621.8	638.2	652.6	658.8
60°	558.2	558.2	572.6	586.9	593.1
62.5°	498.7	498.7	513.0	523.3	531.5
65°	443.3	443.3	451.5	459.7	465.8
67.5°	389.9	383.8	392.0	402.2	400.2
70°	334.5	328.4	334.5	338.6	340.7
72.5°	279.1	275.0	279.1	281.2	285.3
75°	225.7	223.7	225.7	225.7	225.7
77.5°	180.6	174.4	178.5	176.5	174.4
80°	133.4	131.3	129.3	127.2	129.3
82.5°	92.3	90.3	90.3	86.2	86.2
85°	53.4	51.3	51.3	47.2	47.2
87.5°	20.5	20.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)