

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: P296537

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296537  
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-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4053.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

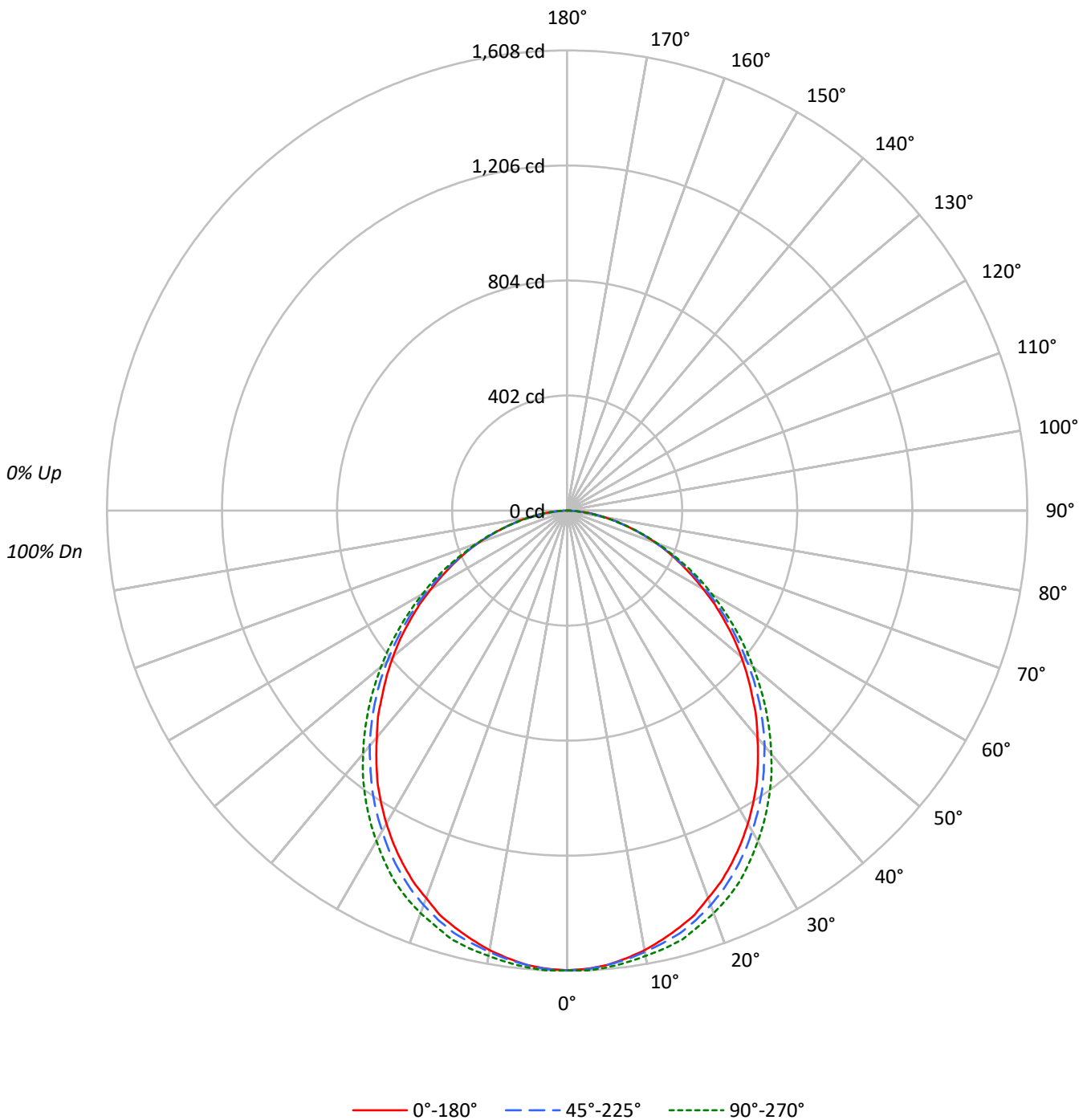
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4323	4323	4323
5°	4307	4307	4329
10°	4263	4279	4318
15°	4205	4256	4324
20°	4126	4201	4288
25°	4038	4122	4242
30°	3924	4019	4144
35°	3797	3903	4036
40°	3634	3769	3897
45°	3476	3615	3737
50°	3325	3435	3553
55°	3148	3242	3356
60°	2958	3034	3143
65°	2779	2831	2921
70°	2592	2592	2639
75°	2311	2311	2311
80°	2036	1973	1973
85°	1621	1559	1436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	3.7
10°-20°	430.7	10.6
20°-30°	639.9	15.8
30°-40°	742.6	18.3
40°-50°	731.2	18.0
50°-60°	618.8	15.3
60°-70°	441.3	10.9
70°-80°	237.2	5.9
80°-90°	59.8	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°	1222.1	30.2
0°-40°	1964.7	48.5
0°-60°	3314.8	81.8
0°-90°	4053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1594	1594	1594	1600	1602	151
15°	1510	1514	1528	1542	1552	425
25°	1360	1364	1388	1414	1429	626
35°	1156	1158	1188	1216	1229	721
45°	913	920	950	972	982	706
55°	671	673	691	709	715	601
65°	436	436	445	453	459	433
75°	222	220	222	222	222	239
85°	52	50	50	46	46	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1606.5	1606.5	1606.5	1606.5	1606.5
2.5°	1602.5	1602.5	1604.5	1606.5	1608.5
5°	1594.4	1594.4	1594.4	1600.5	1602.5
7.5°	1578.2	1580.3	1582.3	1588.3	1592.4
10°	1560.0	1562.1	1566.1	1576.2	1580.3
12.5°	1535.8	1541.9	1547.9	1562.1	1568.1
15°	1509.5	1513.6	1527.7	1541.9	1552.0
17.5°	1481.2	1483.3	1499.4	1519.6	1523.7
20°	1440.8	1446.9	1467.1	1487.3	1497.4
22.5°	1404.4	1408.5	1430.7	1457.0	1465.1
25°	1360.0	1364.0	1388.3	1414.5	1428.7
27.5°	1313.5	1317.5	1343.8	1372.1	1382.2
30°	1263.0	1267.0	1293.3	1323.6	1333.7
32.5°	1210.4	1214.5	1242.8	1269.1	1283.2
35°	1155.9	1157.9	1188.2	1216.5	1228.6
37.5°	1095.3	1101.3	1129.6	1157.9	1172.1
40°	1034.6	1040.7	1073.0	1099.3	1109.4
42.5°	978.1	986.1	1012.4	1036.7	1046.8
45°	913.4	919.5	949.8	972.0	982.1
47.5°	854.8	860.9	887.1	909.4	915.4
50°	794.2	798.2	820.4	840.6	848.7
52.5°	733.5	735.6	755.8	776.0	782.0
55°	670.9	672.9	691.1	709.3	715.4
57.5°	612.3	612.3	628.5	642.6	648.7
60°	549.7	549.7	563.8	577.9	584.0
62.5°	491.0	491.0	505.2	515.3	523.4
65°	436.5	436.5	444.6	452.7	458.7
67.5°	383.9	377.9	386.0	396.1	394.1
70°	329.4	323.3	329.4	333.4	335.4
72.5°	274.8	270.8	274.8	276.8	280.9
75°	222.3	220.3	222.3	222.3	222.3
77.5°	177.8	171.8	175.8	173.8	171.8
80°	131.4	129.3	127.3	125.3	127.3
82.5°	90.9	88.9	88.9	84.9	84.9
85°	52.5	50.5	50.5	46.5	46.5
87.5°	20.2	20.2	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)