

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: P296529

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296529  
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-LD5-40-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: 3758.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

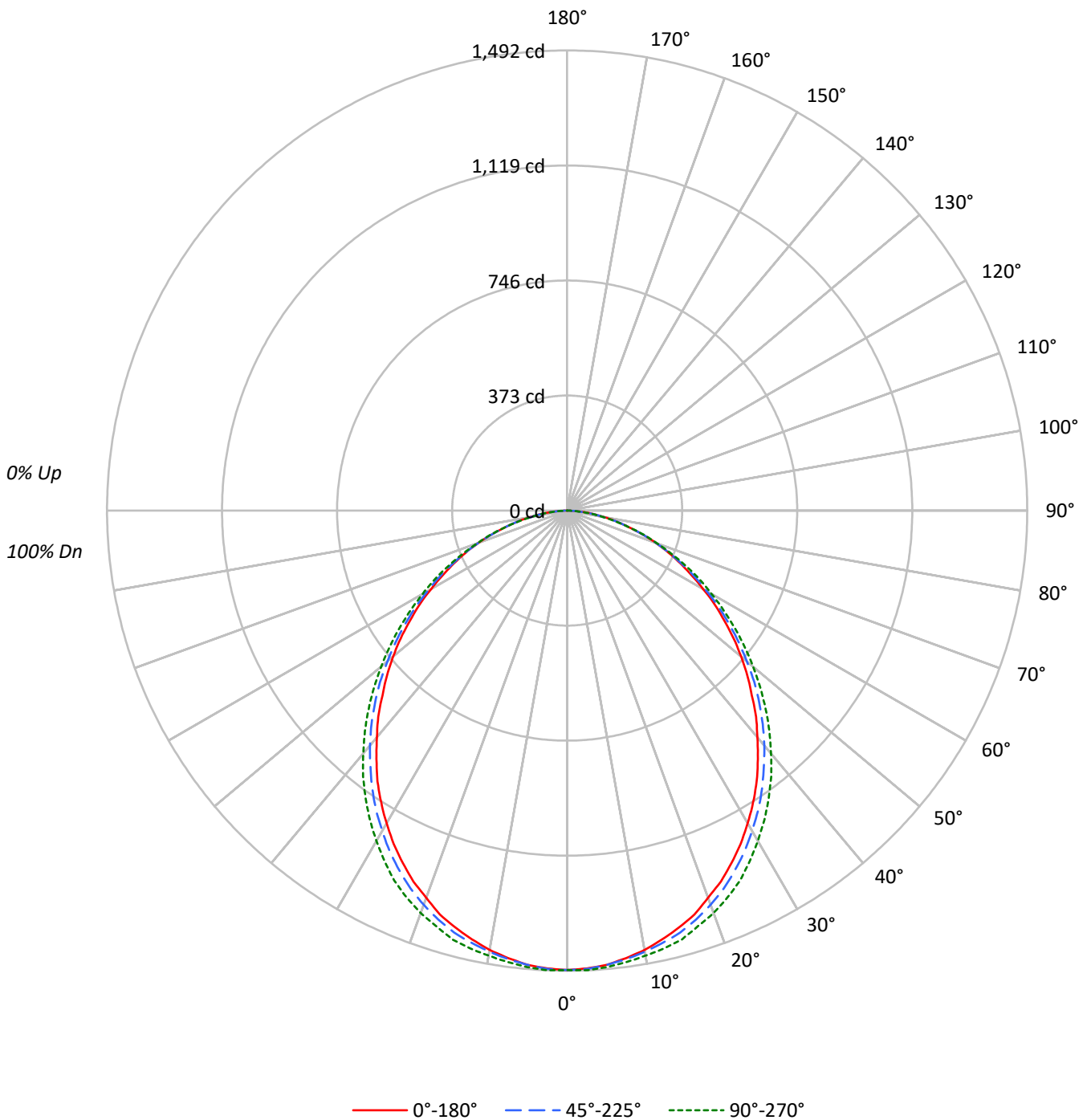
Input Watts (W): 33.015  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4008	4008	4008
5°	3993	3993	4014
10°	3953	3968	4004
15°	3899	3946	4009
20°	3826	3895	3976
25°	3744	3822	3933
30°	3639	3726	3842
35°	3521	3619	3742
40°	3370	3495	3614
45°	3223	3351	3465
50°	3083	3185	3295
55°	2919	3006	3112
60°	2743	2814	2914
65°	2577	2625	2708
70°	2403	2403	2447
75°	2143	2143	2143
80°	1888	1829	1829
85°	1504	1445	1331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	3.7
10°-20°	399.4	10.6
20°-30°	593.3	15.8
30°-40°	688.6	18.3
40°-50°	678.0	18.0
50°-60°	573.8	15.3
60°-70°	409.2	10.9
70°-80°	219.9	5.9
80°-90°	55.4	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°	1133.2	30.2
0°-40°	1821.7	48.5
0°-60°	3073.5	81.8
0°-90°	3758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1478	1478	1478	1484	1486	140
15°	1400	1403	1416	1430	1439	394
25°	1261	1265	1287	1312	1325	580
35°	1072	1074	1102	1128	1139	669
45°	847	852	881	901	911	655
55°	622	624	641	658	663	557
65°	405	405	412	420	425	402
75°	206	204	206	206	206	221
85°	49	47	47	43	43	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1489.6	1489.6	1489.6	1489.6	1489.6
2.5°	1485.8	1485.8	1487.7	1489.6	1491.5
5°	1478.3	1478.3	1478.3	1484.0	1485.8
7.5°	1463.4	1465.2	1467.1	1472.7	1476.5
10°	1446.5	1448.4	1452.1	1461.5	1465.2
12.5°	1424.0	1429.6	1435.3	1448.4	1454.0
15°	1399.7	1403.4	1416.5	1429.6	1439.0
17.5°	1373.4	1375.3	1390.3	1409.0	1412.8
20°	1335.9	1341.6	1360.3	1379.0	1388.4
22.5°	1302.2	1306.0	1326.6	1350.9	1358.4
25°	1261.0	1264.7	1287.2	1311.6	1324.7
27.5°	1217.9	1221.7	1246.0	1272.2	1281.6
30°	1171.1	1174.8	1199.2	1227.3	1236.6
32.5°	1122.3	1126.1	1152.3	1176.7	1189.8
35°	1071.8	1073.6	1101.7	1128.0	1139.2
37.5°	1015.5	1021.2	1047.4	1073.6	1086.7
40°	959.3	965.0	994.9	1019.3	1028.7
42.5°	906.9	914.4	938.7	961.2	970.6
45°	846.9	852.5	880.6	901.2	910.6
47.5°	792.6	798.2	822.6	843.2	848.8
50°	736.4	740.1	760.7	779.5	787.0
52.5°	680.2	682.0	700.8	719.5	725.1
55°	622.1	623.9	640.8	657.7	663.3
57.5°	567.7	567.7	582.7	595.8	601.5
60°	509.6	509.6	522.8	535.9	541.5
62.5°	455.3	455.3	468.4	477.8	485.3
65°	404.7	404.7	412.2	419.7	425.3
67.5°	356.0	350.4	357.9	367.2	365.4
70°	305.4	299.8	305.4	309.2	311.0
72.5°	254.8	251.1	254.8	256.7	260.4
75°	206.1	204.2	206.1	206.1	206.1
77.5°	164.9	159.3	163.0	161.1	159.3
80°	121.8	119.9	118.0	116.2	118.0
82.5°	84.3	82.4	82.4	78.7	78.7
85°	48.7	46.8	46.8	43.1	43.1
87.5°	18.7	18.7	16.9	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)