

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: P296437

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296437  
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-LD5-35-UNV-L82765-W2A1-U-5700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3691.0 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

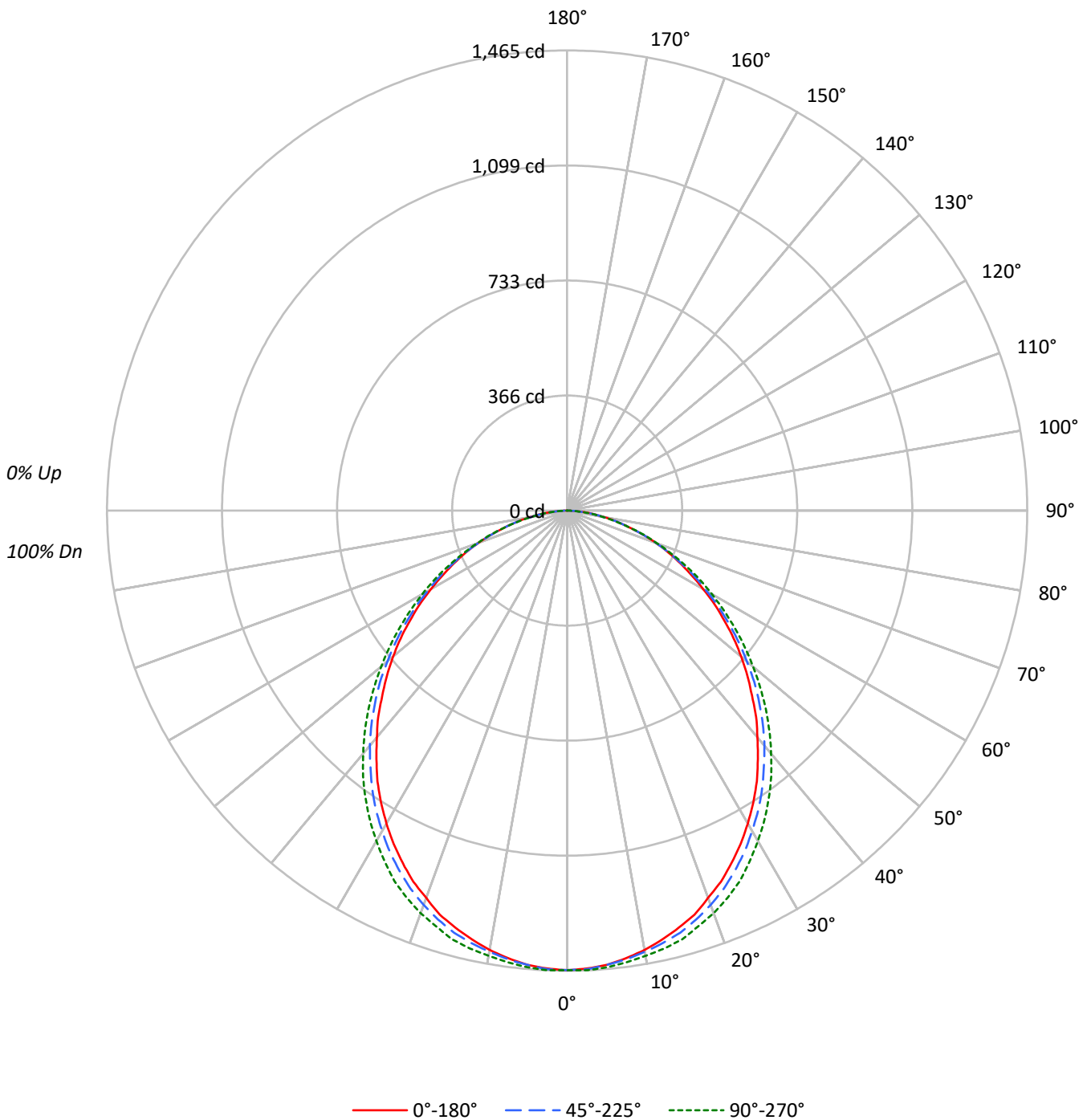
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3937	3937	3937
5°	3922	3922	3942
10°	3882	3897	3932
15°	3830	3876	3937
20°	3757	3826	3905
25°	3677	3754	3863
30°	3574	3660	3774
35°	3458	3555	3676
40°	3310	3433	3549
45°	3166	3291	3404
50°	3028	3128	3236
55°	2867	2953	3057
60°	2694	2763	2862
65°	2531	2578	2660
70°	2360	2360	2404
75°	2104	2104	2104
80°	1853	1796	1796
85°	1476	1420	1306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	3.7
10°-20°	392.3	10.6
20°-30°	582.7	15.8
30°-40°	676.3	18.3
40°-50°	665.9	18.0
50°-60°	563.5	15.3
60°-70°	401.9	10.9
70°-80°	216.0	5.9
80°-90°	54.4	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°	1113.0	30.2
0°-40°	1789.3	48.5
0°-60°	3018.7	81.8
0°-90°	3691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1452	1452	1452	1458	1459	138
15°	1375	1378	1391	1404	1413	387
25°	1238	1242	1264	1288	1301	570
35°	1053	1054	1082	1108	1119	657
45°	832	837	865	885	894	643
55°	611	613	629	646	652	547
65°	398	398	405	412	418	394
75°	202	201	202	202	202	217
85°	48	46	46	42	42	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1459.4	1459.4	1461.2	1463.0	1464.9
5°	1452.0	1452.0	1452.0	1457.5	1459.4
7.5°	1437.3	1439.1	1440.9	1446.5	1450.1
10°	1420.7	1422.5	1426.2	1435.4	1439.1
12.5°	1398.6	1404.1	1409.7	1422.5	1428.1
15°	1374.7	1378.4	1391.3	1404.1	1413.3
17.5°	1348.9	1350.8	1365.5	1383.9	1387.6
20°	1312.1	1317.6	1336.1	1354.5	1363.7
22.5°	1279.0	1282.7	1302.9	1326.9	1334.2
25°	1238.5	1242.2	1264.3	1288.2	1301.1
27.5°	1196.2	1199.9	1223.8	1249.6	1258.8
30°	1150.2	1153.9	1177.8	1205.4	1214.6
32.5°	1102.3	1106.0	1131.8	1155.7	1168.6
35°	1052.6	1054.5	1082.1	1107.9	1118.9
37.5°	997.4	1003.0	1028.7	1054.5	1067.4
40°	942.2	947.8	977.2	1001.1	1010.3
42.5°	890.7	898.1	922.0	944.1	953.3
45°	831.8	837.3	864.9	885.2	894.4
47.5°	778.4	784.0	807.9	828.1	833.7
50°	723.2	726.9	747.2	765.6	772.9
52.5°	668.0	669.9	688.3	706.7	712.2
55°	611.0	612.8	629.4	645.9	651.5
57.5°	557.6	557.6	572.3	585.2	590.7
60°	500.6	500.6	513.4	526.3	531.8
62.5°	447.2	447.2	460.1	469.3	476.6
65°	397.5	397.5	404.9	412.2	417.7
67.5°	349.7	344.1	351.5	360.7	358.9
70°	300.0	294.4	300.0	303.6	305.5
72.5°	250.3	246.6	250.3	252.1	255.8
75°	202.4	200.6	202.4	202.4	202.4
77.5°	161.9	156.4	160.1	158.3	156.4
80°	119.6	117.8	115.9	114.1	115.9
82.5°	82.8	81.0	81.0	77.3	77.3
85°	47.8	46.0	46.0	42.3	42.3
87.5°	18.4	18.4	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)