

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: P296435

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296435  
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-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3645.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

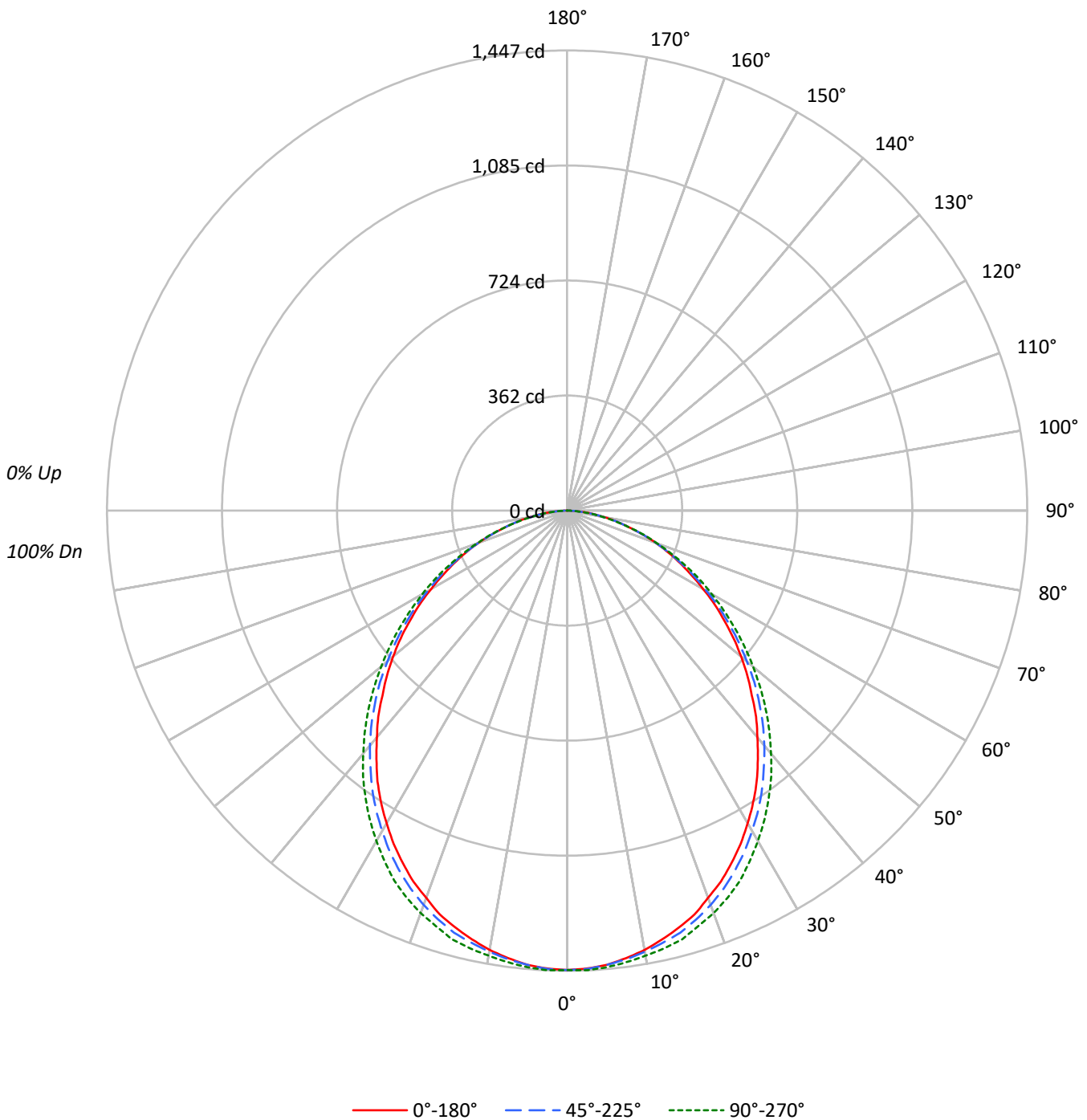
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3888	3888	3888
5°	3873	3873	3893
10°	3834	3849	3883
15°	3782	3828	3888
20°	3711	3778	3857
25°	3632	3707	3815
30°	3529	3614	3727
35°	3415	3510	3630
40°	3269	3390	3505
45°	3126	3251	3361
50°	2990	3089	3195
55°	2831	2916	3018
60°	2660	2729	2827
65°	2499	2546	2627
70°	2330	2330	2374
75°	2078	2078	2078
80°	1830	1774	1774
85°	1460	1402	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	3.7
10°-20°	387.4	10.6
20°-30°	575.5	15.8
30°-40°	667.9	18.3
40°-50°	657.6	18.0
50°-60°	556.5	15.3
60°-70°	396.9	10.9
70°-80°	213.3	5.9
80°-90°	53.8	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°	1099.1	30.2
0°-40°	1767.0	48.5
0°-60°	2981.1	81.8
0°-90°	3645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1434	1434	1434	1439	1441	136
15°	1358	1361	1374	1387	1396	383
25°	1223	1227	1248	1272	1285	563
35°	1040	1041	1069	1094	1105	649
45°	821	827	854	874	883	635
55°	603	605	622	638	643	540
65°	392	392	400	407	412	390
75°	200	198	200	200	200	215
85°	47	45	45	42	42	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1444.8	1444.8	1444.8	1444.8	1444.8
2.5°	1441.2	1441.2	1443.0	1444.8	1446.6
5°	1433.9	1433.9	1433.9	1439.3	1441.2
7.5°	1419.4	1421.2	1423.0	1428.4	1432.1
10°	1403.0	1404.8	1408.5	1417.5	1421.2
12.5°	1381.2	1386.6	1392.1	1404.8	1410.3
15°	1357.6	1361.2	1373.9	1386.6	1395.7
17.5°	1332.1	1333.9	1348.5	1366.7	1370.3
20°	1295.8	1301.2	1319.4	1337.6	1346.7
22.5°	1263.1	1266.7	1286.7	1310.3	1317.6
25°	1223.1	1226.7	1248.5	1272.1	1284.9
27.5°	1181.3	1184.9	1208.5	1234.0	1243.1
30°	1135.8	1139.5	1163.1	1190.4	1199.5
32.5°	1088.6	1092.2	1117.7	1141.3	1154.0
35°	1039.5	1041.3	1068.6	1094.0	1105.0
37.5°	985.0	990.5	1015.9	1041.3	1054.1
40°	930.5	935.9	965.0	988.6	997.7
42.5°	879.6	886.9	910.5	932.3	941.4
45°	821.4	826.9	854.2	874.1	883.2
47.5°	768.7	774.2	797.8	817.8	823.3
50°	714.2	717.9	737.8	756.0	763.3
52.5°	659.7	661.5	679.7	697.9	703.3
55°	603.4	605.2	621.5	637.9	643.3
57.5°	550.7	550.7	565.2	577.9	583.4
60°	494.3	494.3	507.0	519.8	525.2
62.5°	441.6	441.6	454.3	463.4	470.7
65°	392.5	392.5	399.8	407.1	412.5
67.5°	345.3	339.8	347.1	356.2	354.4
70°	296.2	290.8	296.2	299.9	301.7
72.5°	247.2	243.5	247.2	249.0	252.6
75°	199.9	198.1	199.9	199.9	199.9
77.5°	159.9	154.5	158.1	156.3	154.5
80°	118.1	116.3	114.5	112.7	114.5
82.5°	81.8	80.0	80.0	76.3	76.3
85°	47.3	45.4	45.4	41.8	41.8
87.5°	18.2	18.2	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)