

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: P296533

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296533  
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-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3573.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

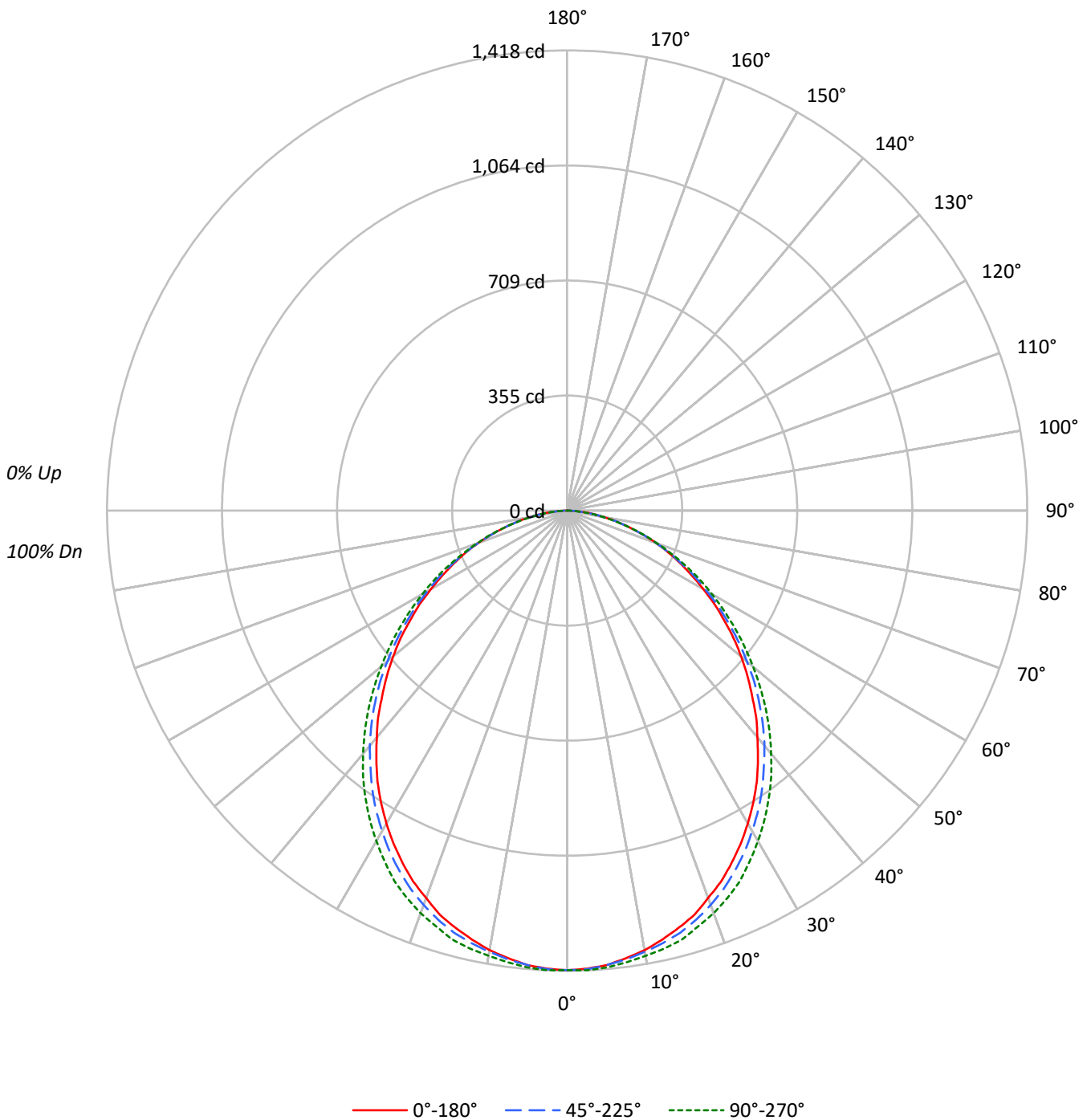
Input Watts (W): 35.247  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3811	3811	3811
5°	3797	3797	3816
10°	3758	3772	3807
15°	3707	3752	3812
20°	3637	3704	3780
25°	3560	3634	3740
30°	3460	3543	3654
35°	3347	3441	3558
40°	3204	3323	3436
45°	3064	3186	3295
50°	2931	3028	3132
55°	2775	2859	2959
60°	2608	2675	2771
65°	2450	2495	2575
70°	2285	2285	2327
75°	2038	2038	2038
80°	1795	1739	1739
85°	1430	1374	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	3.7
10°-20°	379.7	10.6
20°-30°	564.1	15.8
30°-40°	654.7	18.3
40°-50°	644.6	18.0
50°-60°	545.5	15.3
60°-70°	389.0	10.9
70°-80°	209.1	5.9
80°-90°	52.7	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°	1077.4	30.2
0°-40°	1732.1	48.5
0°-60°	2922.2	81.8
0°-90°	3573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1406	1406	1406	1411	1413	133
15°	1331	1334	1347	1359	1368	375
25°	1199	1202	1224	1247	1260	552
35°	1019	1021	1048	1072	1083	636
45°	805	811	837	857	866	623
55°	591	593	609	625	631	530
65°	385	385	392	399	404	382
75°	196	194	196	196	196	210
85°	46	44	44	41	41	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1416.3	1416.3	1416.3	1416.3	1416.3
2.5°	1412.7	1412.7	1414.5	1416.3	1418.0
5°	1405.6	1405.6	1405.6	1410.9	1412.7
7.5°	1391.3	1393.1	1394.9	1400.2	1403.8
10°	1375.3	1377.1	1380.6	1389.5	1393.1
12.5°	1353.9	1359.3	1364.6	1377.1	1382.4
15°	1330.7	1334.3	1346.8	1359.3	1368.2
17.5°	1305.8	1307.6	1321.8	1339.7	1343.2
20°	1270.2	1275.5	1293.3	1311.2	1320.1
22.5°	1238.1	1241.7	1261.3	1284.4	1291.6
25°	1198.9	1202.5	1223.9	1247.0	1259.5
27.5°	1157.9	1161.5	1184.7	1209.6	1218.5
30°	1113.4	1117.0	1140.1	1166.9	1175.8
32.5°	1067.1	1070.7	1095.6	1118.8	1131.2
35°	1019.0	1020.8	1047.5	1072.4	1083.1
37.5°	965.6	970.9	995.8	1020.8	1033.2
40°	912.1	917.5	946.0	969.1	978.0
42.5°	862.2	869.4	892.5	913.9	922.8
45°	805.2	810.6	837.3	856.9	865.8
47.5°	753.6	758.9	782.1	801.7	807.0
50°	700.1	703.7	723.3	741.1	748.2
52.5°	646.7	648.5	666.3	684.1	689.4
55°	591.4	593.2	609.3	625.3	630.6
57.5°	539.8	539.8	554.0	566.5	571.8
60°	484.6	484.6	497.0	509.5	514.8
62.5°	432.9	432.9	445.4	454.3	461.4
65°	384.8	384.8	391.9	399.0	404.4
67.5°	338.5	333.1	340.3	349.2	347.4
70°	290.4	285.0	290.4	293.9	295.7
72.5°	242.3	238.7	242.3	244.1	247.6
75°	196.0	194.2	196.0	196.0	196.0
77.5°	156.8	151.4	155.0	153.2	151.4
80°	115.8	114.0	112.2	110.5	112.2
82.5°	80.2	78.4	78.4	74.8	74.8
85°	46.3	44.5	44.5	41.0	41.0
87.5°	17.8	17.8	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)