

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: P296016

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-36-UNV-L92765-W2A1-U-4500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3328.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

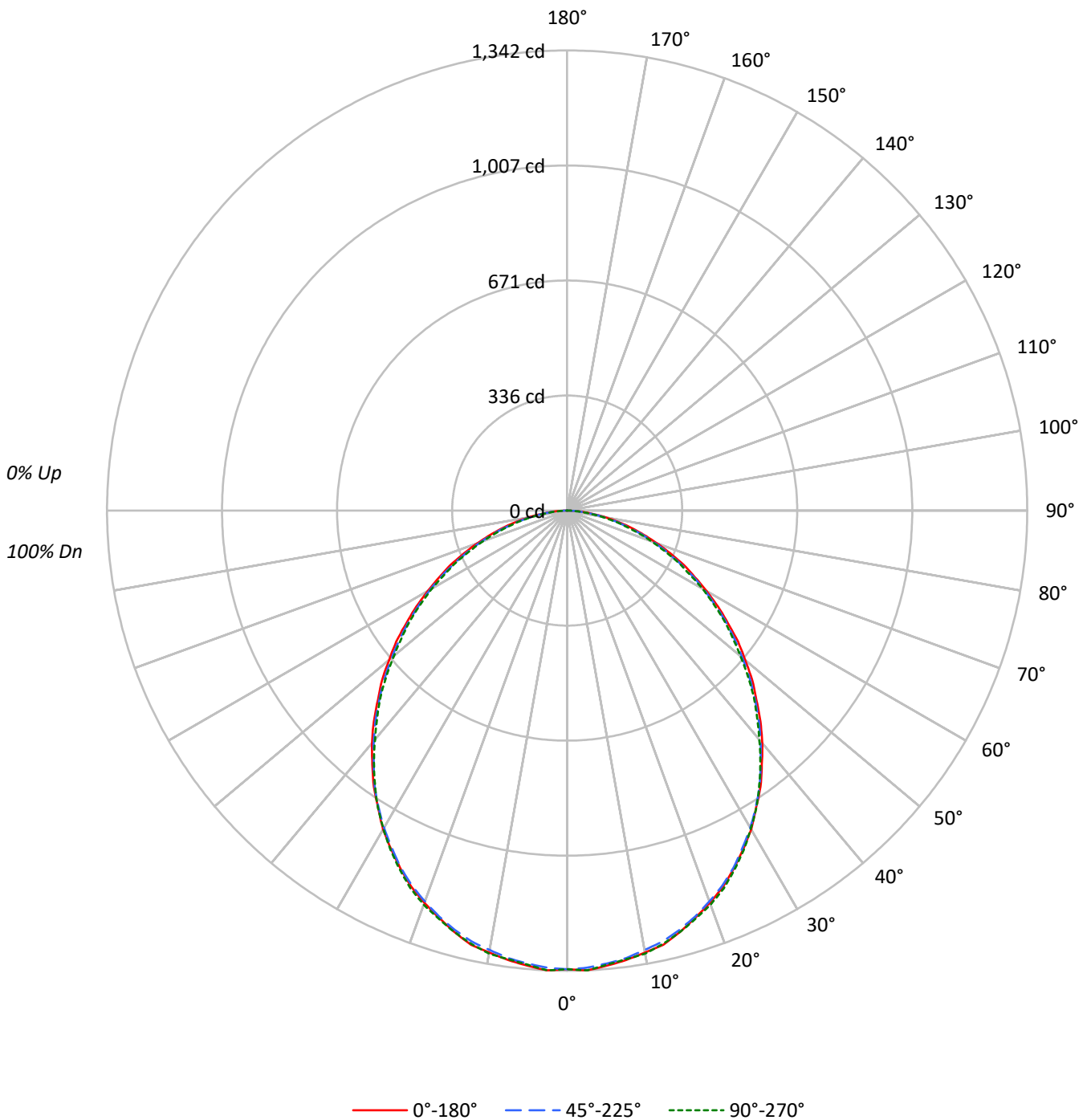
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	1800	1800	1800
5°	1800	1791	1795
10°	1788	1778	1793
15°	1772	1763	1772
20°	1743	1737	1751
25°	1709	1705	1715
30°	1668	1660	1665
35°	1615	1608	1605
40°	1556	1541	1531
45°	1485	1471	1465
50°	1418	1396	1380
55°	1342	1322	1310
60°	1263	1239	1225
65°	1193	1148	1138
70°	1094	1052	1031
75°	1005	943	904
80°	882	824	773
85°	713	662	563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	3.8
10°-20°	357.8	10.8
20°-30°	529.3	15.9
30°-40°	610.9	18.4
40°-50°	596.6	17.9
50°-60°	503.8	15.1
60°-70°	358.9	10.8
70°-80°	194.3	5.8
80°-90°	50.1	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°	1013.4	30.4
0°-40°	1624.2	48.8
0°-60°	2724.7	81.9
0°-90°	3328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1332	1332	1326	1329	1329	126
15°	1272	1267	1266	1271	1272	358
25°	1151	1144	1149	1153	1155	530
35°	984	976	979	976	977	614
45°	780	774	773	770	770	604
55°	572	565	564	558	558	513
65°	375	367	361	356	358	369
75°	193	187	181	177	174	205
85°	46	45	43	38	36	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1337.8	1337.8	1337.8	1337.8	1337.8
2.5°	1342.1	1336.7	1334.5	1335.6	1342.1
5°	1332.4	1332.4	1326.0	1329.2	1329.2
7.5°	1321.7	1322.7	1316.3	1321.7	1319.5
10°	1308.8	1305.6	1301.3	1309.8	1312.0
12.5°	1297.0	1289.4	1287.3	1292.7	1293.7
15°	1272.3	1266.9	1265.8	1271.2	1272.3
17.5°	1244.4	1245.4	1241.1	1248.6	1247.6
20°	1217.5	1215.4	1213.2	1221.8	1222.9
22.5°	1187.5	1181.0	1183.2	1190.7	1192.8
25°	1150.9	1144.5	1148.8	1153.1	1155.2
27.5°	1112.3	1109.1	1108.0	1113.4	1115.5
30°	1073.6	1068.3	1068.3	1074.7	1071.5
32.5°	1026.4	1022.1	1024.3	1026.4	1027.5
35°	983.5	975.9	979.2	975.9	977.0
37.5°	933.0	927.6	926.6	925.5	925.5
40°	885.8	881.5	877.2	877.2	871.8
42.5°	834.2	828.9	826.7	823.5	820.3
45°	780.5	774.1	773.0	769.8	769.8
47.5°	732.2	722.6	721.5	715.0	715.0
50°	677.5	671.0	666.7	662.4	659.2
52.5°	628.1	621.6	615.2	610.9	607.7
55°	572.3	564.7	563.7	558.3	558.3
57.5°	521.8	515.3	511.1	504.6	505.7
60°	469.2	462.7	460.6	455.2	455.2
62.5°	419.8	414.4	411.2	405.8	401.5
65°	374.7	367.2	360.7	356.5	357.5
67.5°	325.3	316.7	313.5	309.2	306.0
70°	278.1	272.7	267.3	262.0	262.0
72.5°	234.1	228.7	225.5	219.0	216.9
75°	193.3	186.8	181.4	177.2	173.9
77.5°	152.5	146.0	142.8	137.4	137.4
80°	113.8	109.5	106.3	104.1	99.8
82.5°	78.4	76.2	73.0	69.8	66.6
85°	46.2	45.1	42.9	37.6	36.5
87.5°	18.3	18.3	16.1	15.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)