

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: P296291

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2440.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

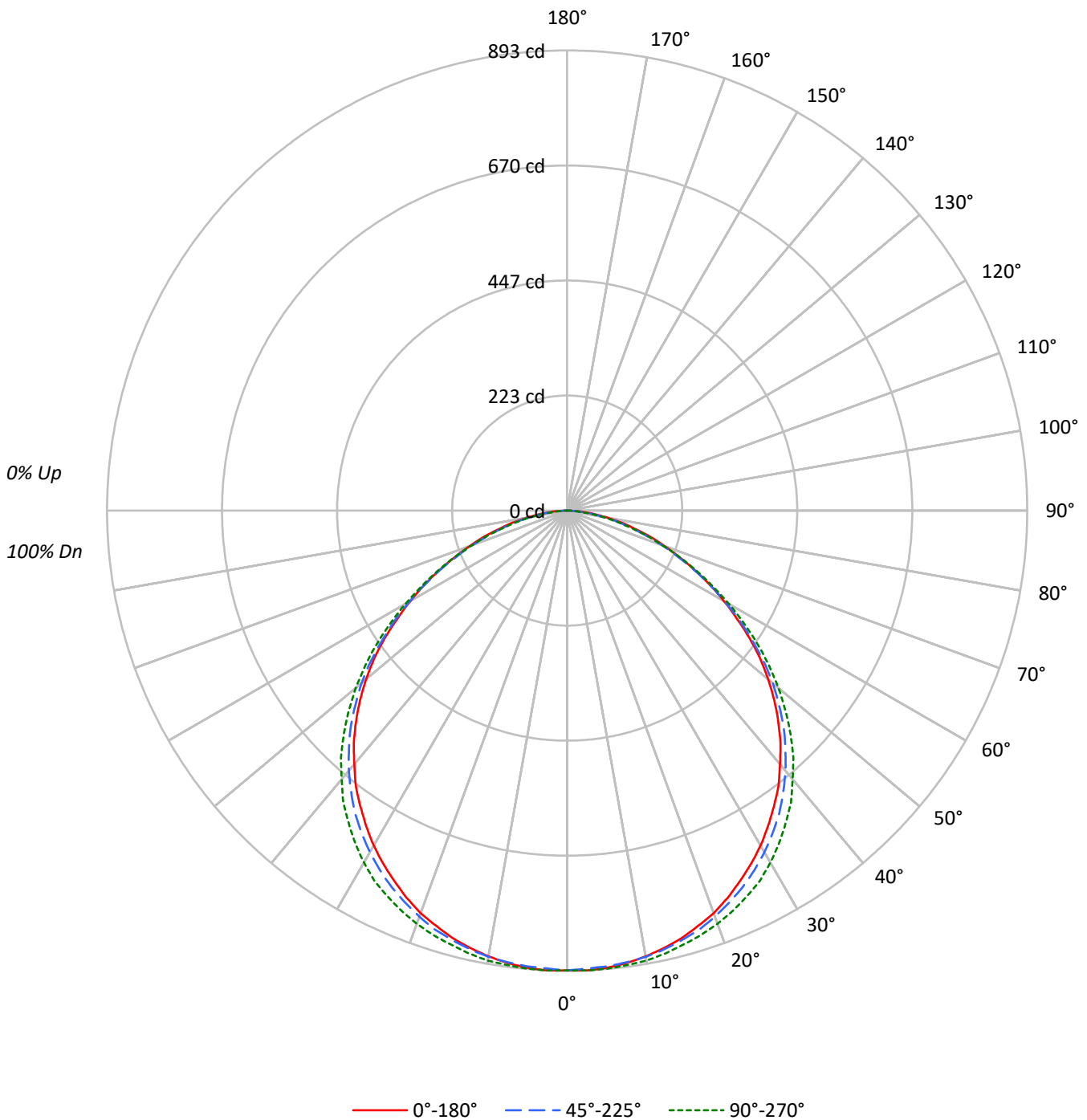
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296291

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P296291

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K

**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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	1201	1201	1201
5°	1203	1199	1205
10°	1200	1201	1212
15°	1197	1202	1215
20°	1190	1201	1222
25°	1178	1197	1226
30°	1166	1189	1225
35°	1149	1178	1215
40°	1128	1158	1195
45°	1103	1131	1166
50°	1066	1091	1120
55°	1014	1027	1057
60°	946	952	977
65°	869	863	884
70°	790	768	772
75°	702	664	659
80°	610	545	531
85°	500	386	299



TEST NUMBER: P296291

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.5
10°-20°	244.0	10.0
20°-30°	372.4	15.3
30°-40°	448.9	18.4
40°-50°	457.8	18.8
50°-60°	391.8	16.1
60°-70°	269.9	11.1
70°-80°	138.4	5.7
80°-90°	32.2	1.3
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°	701.0	28.7
0°-40°	1149.9	47.1
0°-60°	1999.6	81.9
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	890	889	888	890	892	85
15°	859	858	863	869	872	242
25°	793	796	806	820	826	366
35°	700	703	717	733	740	438
45°	580	580	594	609	613	446
55°	432	430	438	447	451	386
65°	273	267	271	273	278	271
75°	135	130	128	128	127	146
85°	32	29	25	22	19	38
90°	0	0	0	0	0	



TEST NUMBER: P296291

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	892.3	892.3	892.3	892.3	892.3
2.5°	893.2	891.4	889.5	891.4	893.2
5°	890.5	888.6	887.7	890.5	892.3
7.5°	885.8	884.0	884.0	887.7	889.5
10°	878.4	877.5	879.4	883.1	886.8
12.5°	869.2	869.2	872.0	876.6	880.3
15°	859.0	858.1	862.7	869.2	872.0
17.5°	845.1	846.0	852.5	859.9	863.6
20°	831.2	832.2	838.6	848.8	853.4
22.5°	813.6	815.5	822.9	835.9	840.5
25°	793.3	796.1	806.2	820.1	825.7
27.5°	772.9	775.7	786.8	802.5	809.9
30°	750.7	754.4	765.5	782.2	788.6
32.5°	725.7	728.5	742.4	759.0	765.5
35°	699.8	702.6	717.4	733.1	739.6
37.5°	673.9	673.9	688.7	707.2	713.7
40°	642.4	643.3	659.1	676.6	680.3
42.5°	612.8	612.8	626.7	643.3	649.8
45°	579.5	580.4	594.3	609.1	612.8
47.5°	545.2	545.2	557.2	571.1	574.8
50°	509.1	507.3	521.1	532.2	535.0
52.5°	472.1	469.3	480.4	489.7	493.4
55°	432.3	429.5	437.8	447.1	450.8
57.5°	390.6	386.9	396.2	404.5	406.4
60°	351.7	346.2	353.6	358.2	362.9
62.5°	312.9	306.4	311.9	314.7	318.4
65°	273.1	266.6	271.2	273.1	277.7
67.5°	235.1	230.5	231.4	234.2	236.0
70°	200.9	195.3	195.3	195.3	196.2
72.5°	169.4	161.1	160.1	161.1	161.1
75°	135.1	129.6	127.7	127.7	126.8
77.5°	108.3	100.9	100.0	98.1	96.3
80°	78.7	72.2	70.3	69.4	68.5
82.5°	54.6	49.1	47.2	45.4	42.6
85°	32.4	28.7	25.0	22.2	19.4
87.5°	12.0	11.1	9.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)