

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: P295865

Luminaire Tested: **24RLN-LD5-31-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295865
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-LD5-31-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

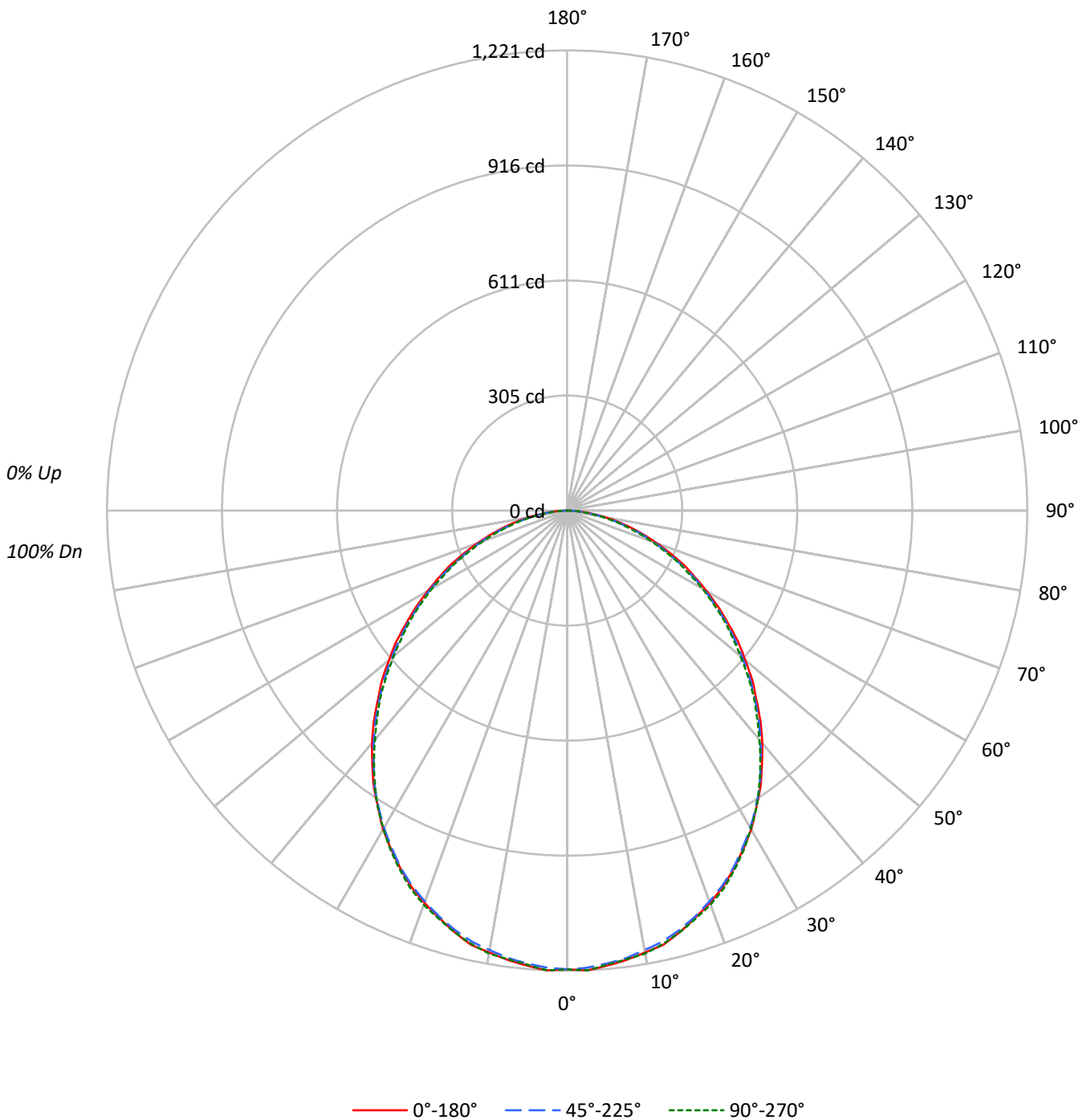
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1638	1638	1638
5°	1637	1629	1633
10°	1627	1618	1631
15°	1612	1604	1612
20°	1586	1581	1593
25°	1555	1552	1560
30°	1518	1510	1515
35°	1470	1463	1460
40°	1415	1402	1393
45°	1351	1338	1333
50°	1290	1270	1256
55°	1221	1203	1192
60°	1149	1128	1115
65°	1085	1045	1036
70°	995	957	938
75°	914	858	823
80°	802	749	704
85°	648	604	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.8
10°-20°	325.6	10.8
20°-30°	481.6	15.9
30°-40°	555.8	18.4
40°-50°	542.8	17.9
50°-60°	458.4	15.1
60°-70°	326.5	10.8
70°-80°	176.8	5.8
80°-90°	45.6	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°	922.0	30.4
0°-40°	1477.8	48.8
0°-60°	2479.1	81.9
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1212	1212	1206	1209	1209	115
15°	1158	1153	1152	1157	1158	326
25°	1047	1041	1045	1049	1051	482
35°	895	888	891	888	889	558
45°	710	704	703	700	700	549
55°	521	514	513	508	508	467
65°	341	334	328	324	325	336
75°	176	170	165	161	158	186
85°	42	41	39	34	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1221.1	1216.2	1214.2	1215.2	1221.1
5°	1212.3	1212.3	1206.4	1209.4	1209.4
7.5°	1202.5	1203.5	1197.6	1202.5	1200.6
10°	1190.8	1187.9	1184.0	1191.8	1193.7
12.5°	1180.0	1173.2	1171.3	1176.1	1177.1
15°	1157.6	1152.7	1151.7	1156.6	1157.6
17.5°	1132.2	1133.2	1129.3	1136.1	1135.1
20°	1107.8	1105.8	1103.9	1111.7	1112.6
22.5°	1080.4	1074.5	1076.5	1083.3	1085.3
25°	1047.2	1041.3	1045.2	1049.1	1051.1
27.5°	1012.0	1009.1	1008.1	1013.0	1015.0
30°	976.9	972.0	972.0	977.8	974.9
32.5°	933.9	930.0	931.9	933.9	934.9
35°	894.8	888.0	890.9	888.0	888.9
37.5°	848.9	844.0	843.0	842.1	842.1
40°	805.9	802.0	798.1	798.1	793.2
42.5°	759.0	754.1	752.2	749.3	746.3
45°	710.2	704.3	703.3	700.4	700.4
47.5°	666.2	657.4	656.5	650.6	650.6
50°	616.4	610.5	606.6	602.7	599.8
52.5°	571.5	565.6	559.7	555.8	552.9
55°	520.7	513.8	512.9	508.0	508.0
57.5°	474.8	468.9	465.0	459.1	460.1
60°	426.9	421.0	419.1	414.2	414.2
62.5°	382.0	377.1	374.1	369.3	365.3
65°	340.9	334.1	328.2	324.3	325.3
67.5°	296.0	288.2	285.2	281.3	278.4
70°	253.0	248.1	243.2	238.4	238.4
72.5°	213.0	208.1	205.1	199.3	197.3
75°	175.8	170.0	165.1	161.2	158.3
77.5°	138.7	132.9	129.9	125.0	125.0
80°	103.5	99.6	96.7	94.8	90.8
82.5°	71.3	69.4	66.4	63.5	60.6
85°	42.0	41.0	39.1	34.2	33.2
87.5°	16.6	16.6	14.7	13.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)