

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: P295813

Luminaire Tested: **24RLN-LD5-31-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295813
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-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2930.0 lumens
Efficiency: N/A
Efficacy: 138.2 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

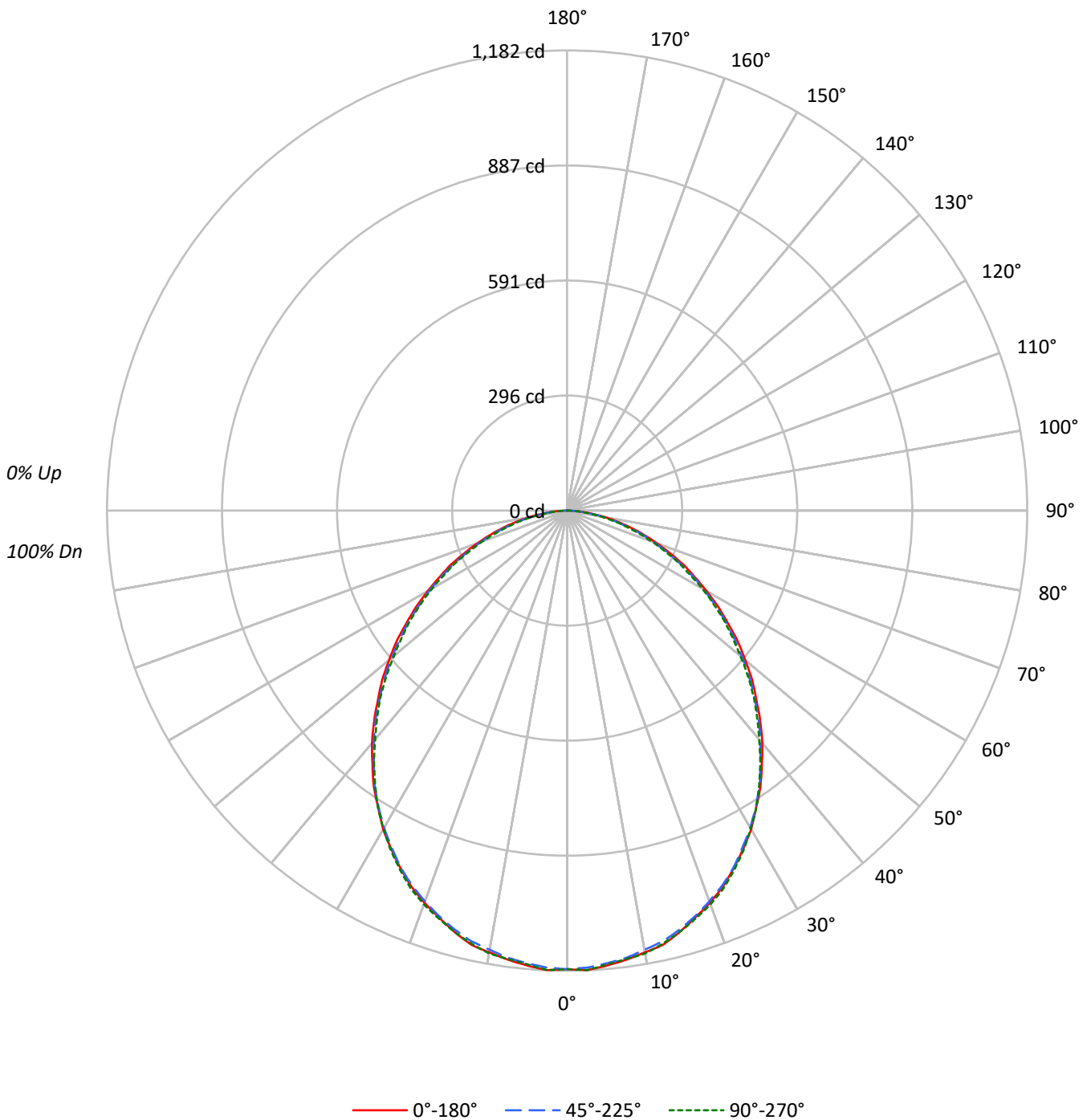
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295813

CATALOG NUMBER: 24RLN-LD5-31-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P295813

CATALOG NUMBER: 24RLN-LD5-31-UNV-L83050-W2A1-U-3000K

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°	1585	1585	1585
5°	1584	1577	1581
10°	1574	1565	1578
15°	1560	1552	1560
20°	1535	1529	1542
25°	1504	1502	1510
30°	1468	1461	1466
35°	1422	1416	1413
40°	1370	1356	1348
45°	1308	1295	1290
50°	1249	1229	1215
55°	1182	1164	1153
60°	1112	1091	1079
65°	1050	1011	1002
70°	963	926	907
75°	884	830	796
80°	776	725	681
85°	627	584	496



TEST NUMBER: P295813

CATALOG NUMBER: 24RLN-LD5-31-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.8
10°-20°	315.0	10.8
20°-30°	466.0	15.9
30°-40°	537.8	18.4
40°-50°	525.3	17.9
50°-60°	443.6	15.1
60°-70°	315.9	10.8
70°-80°	171.1	5.8
80°-90°	44.1	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°	892.2	30.4
0°-40°	1430.0	48.8
0°-60°	2398.8	81.9
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1173	1173	1167	1170	1170	111
15°	1120	1115	1114	1119	1120	316
25°	1013	1008	1011	1015	1017	467
35°	866	859	862	859	860	540
45°	687	682	681	678	678	531
55°	504	497	496	492	492	452
65°	330	323	318	314	315	325
75°	170	164	160	156	153	180
85°	41	40	38	33	32	48
90°	0	0	0	0	0	



TEST NUMBER: P295813

CATALOG NUMBER: 24RLN-LD5-31-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.8	1177.8	1177.8	1177.8	1177.8
2.5°	1181.6	1176.8	1174.9	1175.9	1181.6
5°	1173.1	1173.1	1167.4	1170.2	1170.2
7.5°	1163.6	1164.5	1158.9	1163.6	1161.7
10°	1152.3	1149.4	1145.6	1153.2	1155.1
12.5°	1141.9	1135.2	1133.4	1138.1	1139.0
15°	1120.1	1115.4	1114.4	1119.2	1120.1
17.5°	1095.5	1096.5	1092.7	1099.3	1098.4
20°	1071.9	1070.0	1068.1	1075.7	1076.6
22.5°	1045.4	1039.8	1041.7	1048.3	1050.2
25°	1013.3	1007.6	1011.4	1015.2	1017.1
27.5°	979.3	976.4	975.5	980.2	982.1
30°	945.2	940.5	940.5	946.2	943.4
32.5°	903.7	899.9	901.8	903.7	904.6
35°	865.8	859.2	862.1	859.2	860.2
37.5°	821.4	816.7	815.7	814.8	814.8
40°	779.8	776.0	772.3	772.3	767.5
42.5°	734.5	729.7	727.8	725.0	722.2
45°	687.2	681.5	680.6	677.7	677.7
47.5°	644.7	636.2	635.2	629.5	629.5
50°	596.5	590.8	587.0	583.2	580.4
52.5°	553.0	547.3	541.6	537.8	535.0
55°	503.8	497.2	496.3	491.5	491.5
57.5°	459.4	453.7	449.9	444.3	445.2
60°	413.1	407.4	405.5	400.8	400.8
62.5°	369.6	364.9	362.0	357.3	353.5
65°	329.9	323.3	317.6	313.8	314.8
67.5°	286.4	278.8	276.0	272.2	269.4
70°	244.8	240.1	235.4	230.6	230.6
72.5°	206.1	201.3	198.5	192.8	190.9
75°	170.1	164.5	159.7	156.0	153.1
77.5°	134.2	128.6	125.7	121.0	121.0
80°	100.2	96.4	93.6	91.7	87.9
82.5°	69.0	67.1	64.3	61.4	58.6
85°	40.6	39.7	37.8	33.1	32.1
87.5°	16.1	16.1	14.2	13.2	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)