

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: P296301

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296301
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-LD5-42-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

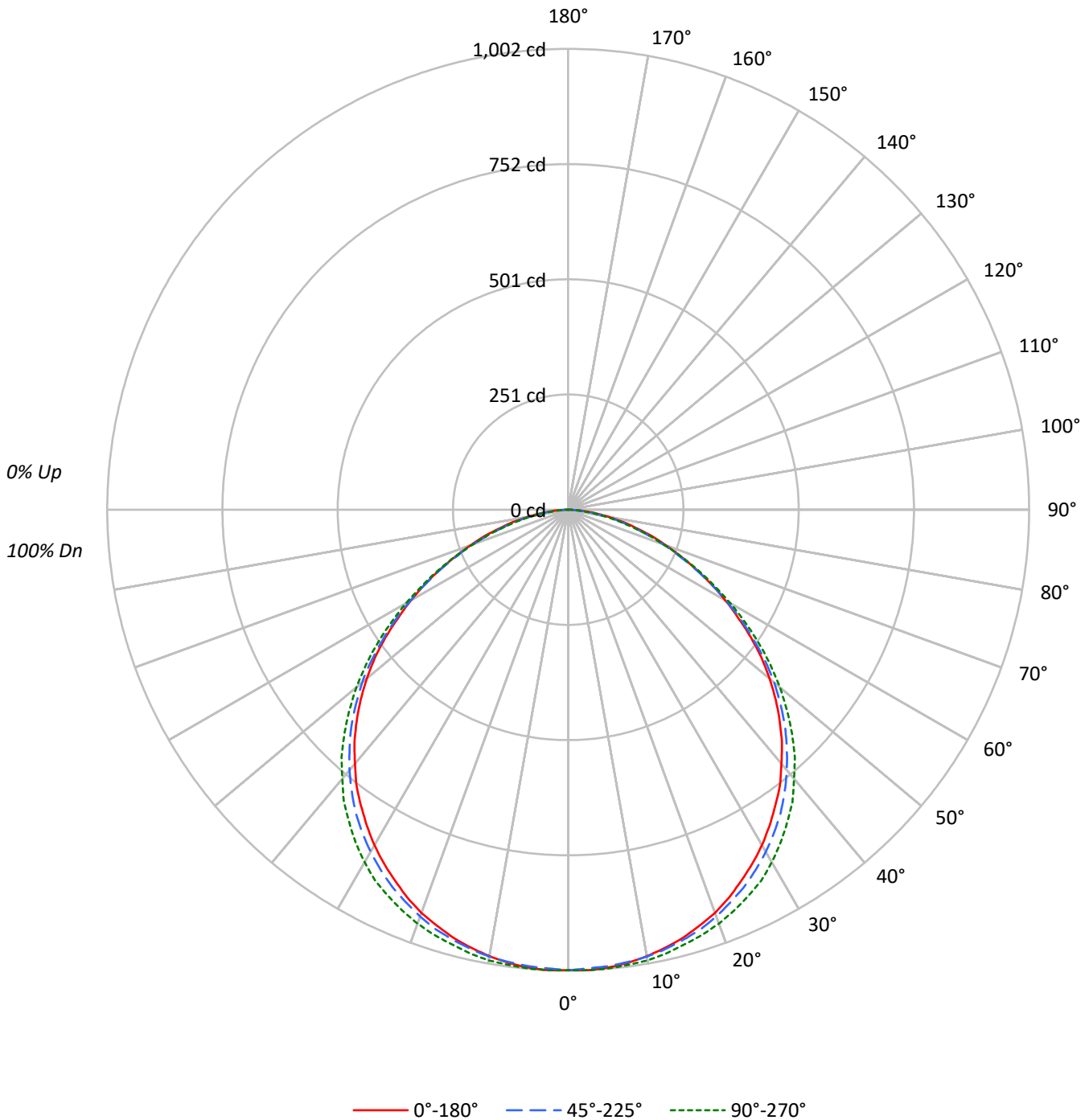
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296301

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P296301

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-2700K

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°	1347	1347	1347
5°	1350	1345	1352
10°	1347	1348	1360
15°	1343	1349	1363
20°	1335	1348	1371
25°	1322	1343	1375
30°	1309	1335	1375
35°	1290	1322	1363
40°	1266	1299	1341
45°	1237	1269	1308
50°	1196	1224	1257
55°	1138	1152	1187
60°	1062	1068	1096
65°	975	969	992
70°	887	862	866
75°	788	745	740
80°	684	611	596
85°	562	432	337



TEST NUMBER: P296301

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.5
10°-20°	273.8	10.0
20°-30°	417.9	15.3
30°-40°	503.8	18.4
40°-50°	513.7	18.8
50°-60°	439.7	16.1
60°-70°	302.9	11.1
70°-80°	155.2	5.7
80°-90°	36.1	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°	786.6	28.7
0°-40°	1290.4	47.1
0°-60°	2243.8	81.9
0°-90°	2738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	999	997	996	999	1001	95
15°	964	963	968	975	978	272
25°	890	893	905	920	926	410
35°	785	788	805	823	830	491
45°	650	651	667	684	688	501
55°	485	482	491	502	506	433
65°	306	299	304	306	312	304
75°	152	145	143	143	142	163
85°	36	32	28	25	22	42
90°	0	0	0	0	0	



TEST NUMBER: P296301

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.3	1001.3	1001.3	1001.3	1001.3
2.5°	1002.3	1000.3	998.2	1000.3	1002.3
5°	999.2	997.1	996.1	999.2	1001.3
7.5°	994.0	991.9	991.9	996.1	998.2
10°	985.7	984.7	986.8	990.9	995.1
12.5°	975.3	975.3	978.4	983.6	987.8
15°	963.9	962.9	968.1	975.3	978.4
17.5°	948.3	949.4	956.6	964.9	969.1
20°	932.7	933.8	941.1	952.5	957.7
22.5°	913.0	915.1	923.4	937.9	943.1
25°	890.2	893.3	904.7	920.3	926.5
27.5°	867.3	870.4	882.9	900.5	908.9
30°	842.4	846.5	859.0	877.7	885.0
32.5°	814.3	817.4	833.0	851.7	859.0
35°	785.2	788.4	805.0	822.6	829.9
37.5°	756.2	756.2	772.8	793.6	800.8
40°	720.9	721.9	739.5	759.3	763.4
42.5°	687.6	687.6	703.2	721.9	729.2
45°	650.2	651.3	666.8	683.5	687.6
47.5°	611.8	611.8	625.3	640.9	645.0
50°	571.3	569.2	584.8	597.2	600.4
52.5°	529.7	526.6	539.1	549.5	553.6
55°	485.1	482.0	491.3	501.7	505.8
57.5°	438.3	434.2	444.6	453.9	456.0
60°	394.7	388.5	396.8	402.0	407.2
62.5°	351.1	343.8	350.0	353.2	357.3
65°	306.4	299.1	304.3	306.4	311.6
67.5°	263.8	258.6	259.7	262.8	264.9
70°	225.4	219.2	219.2	219.2	220.2
72.5°	190.1	180.7	179.7	180.7	180.7
75°	151.6	145.4	143.3	143.3	142.3
77.5°	121.5	113.2	112.2	110.1	108.0
80°	88.3	81.0	78.9	77.9	76.9
82.5°	61.3	55.1	53.0	50.9	47.8
85°	36.4	32.2	28.0	24.9	21.8
87.5°	13.5	12.5	10.4	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)