

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: P296304

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296304
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

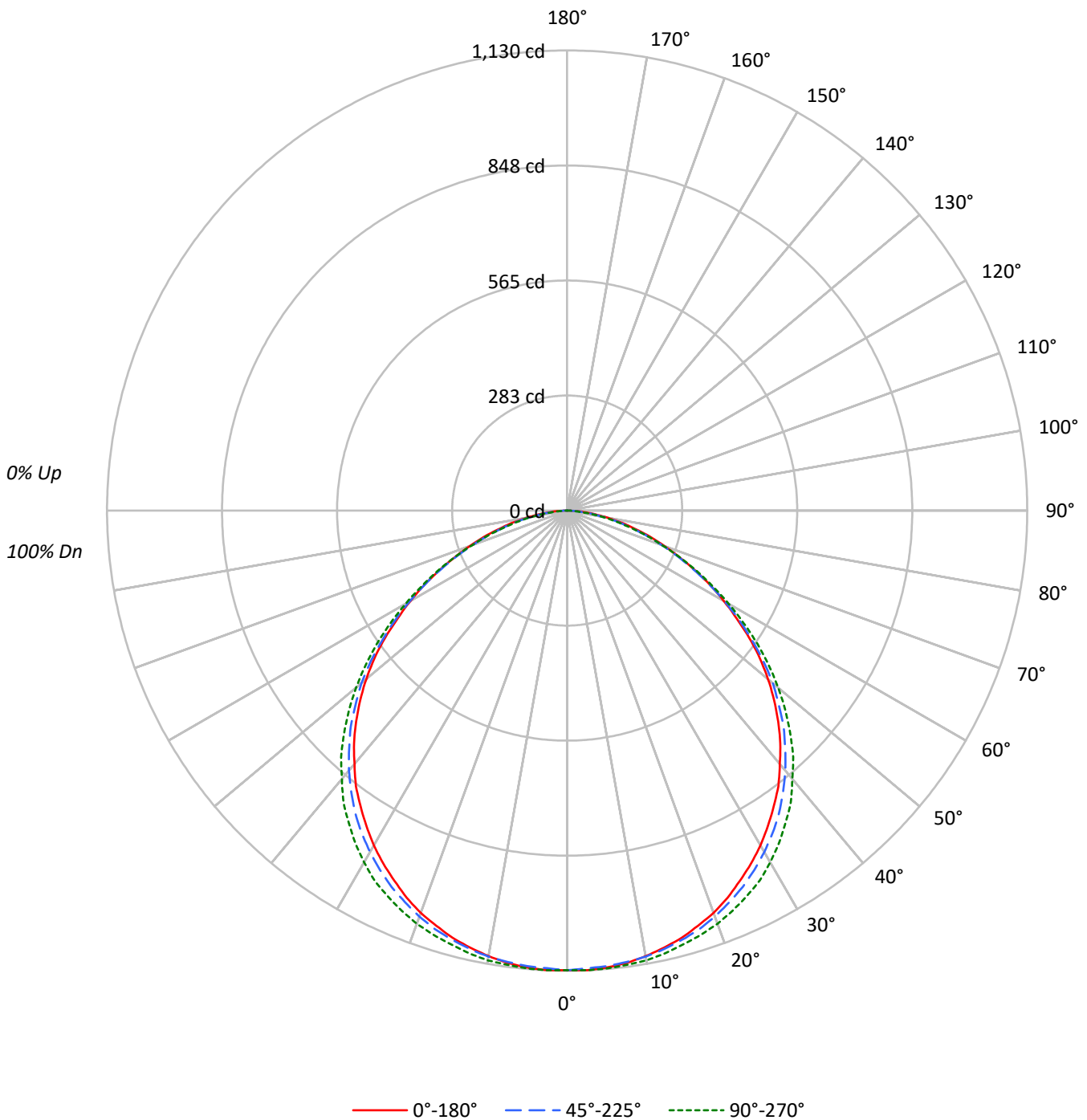
Input Watts (W): 29.481
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296304

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P296304

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-4000K

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°	1519	1519	1519
5°	1521	1516	1524
10°	1518	1520	1532
15°	1513	1520	1536
20°	1505	1519	1546
25°	1489	1514	1550
30°	1475	1504	1550
35°	1454	1490	1536
40°	1427	1464	1511
45°	1395	1430	1475
50°	1348	1380	1416
55°	1282	1299	1337
60°	1197	1203	1235
65°	1100	1092	1118
70°	999	972	976
75°	888	840	834
80°	771	690	671
85°	633	488	380



TEST NUMBER: P296304

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.5
10°-20°	308.6	10.0
20°-30°	471.0	15.3
30°-40°	567.8	18.4
40°-50°	579.0	18.8
50°-60°	495.5	16.1
60°-70°	341.3	11.1
70°-80°	175.0	5.7
80°-90°	40.7	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°	886.6	28.7
0°-40°	1454.4	47.1
0°-60°	2528.9	81.9
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1126	1124	1123	1126	1129	107
15°	1086	1085	1091	1099	1103	306
25°	1003	1007	1020	1037	1044	463
35°	885	889	907	927	935	554
45°	733	734	752	770	775	565
55°	547	543	554	566	570	488
65°	345	337	343	345	351	343
75°	171	164	162	162	160	184
85°	41	36	32	28	25	48
90°	0	0	0	0	0	



TEST NUMBER: P296304

CATALOG NUMBER: 24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	1129.7	1127.4	1125.0	1127.4	1129.7
5°	1126.2	1123.9	1122.7	1126.2	1128.6
7.5°	1120.4	1118.0	1118.0	1122.7	1125.0
10°	1111.0	1109.8	1112.2	1116.9	1121.5
12.5°	1099.3	1099.3	1102.8	1108.7	1113.3
15°	1086.4	1085.2	1091.1	1099.3	1102.8
17.5°	1068.9	1070.0	1078.2	1087.6	1092.3
20°	1051.3	1052.5	1060.7	1073.5	1079.4
22.5°	1029.1	1031.4	1040.8	1057.1	1063.0
25°	1003.3	1006.8	1019.7	1037.2	1044.3
27.5°	977.5	981.1	995.1	1015.0	1024.4
30°	949.4	954.1	968.2	989.2	997.4
32.5°	917.8	921.3	938.9	960.0	968.2
35°	885.1	888.6	907.3	927.2	935.4
37.5°	852.3	852.3	871.0	894.4	902.6
40°	812.5	813.6	833.5	855.8	860.5
42.5°	775.0	775.0	792.6	813.6	821.8
45°	732.9	734.0	751.6	770.3	775.0
47.5°	689.5	689.5	704.8	722.3	727.0
50°	643.9	641.5	659.1	673.2	676.7
52.5°	597.1	593.5	607.6	619.3	624.0
55°	546.7	543.2	553.7	565.5	570.1
57.5°	494.0	489.4	501.1	511.6	513.9
60°	444.9	437.8	447.2	453.1	458.9
62.5°	395.7	387.5	394.5	398.0	402.7
65°	345.4	337.2	343.0	345.4	351.2
67.5°	297.4	291.5	292.7	296.2	298.5
70°	254.0	247.0	247.0	247.0	248.2
72.5°	214.2	203.7	202.5	203.7	203.7
75°	170.9	163.9	161.6	161.6	160.4
77.5°	137.0	127.6	126.4	124.1	121.8
80°	99.5	91.3	89.0	87.8	86.6
82.5°	69.1	62.0	59.7	57.4	53.9
85°	41.0	36.3	31.6	28.1	24.6
87.5°	15.2	14.0	11.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)