

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: P296316

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296316
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-LD5-45-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3539.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

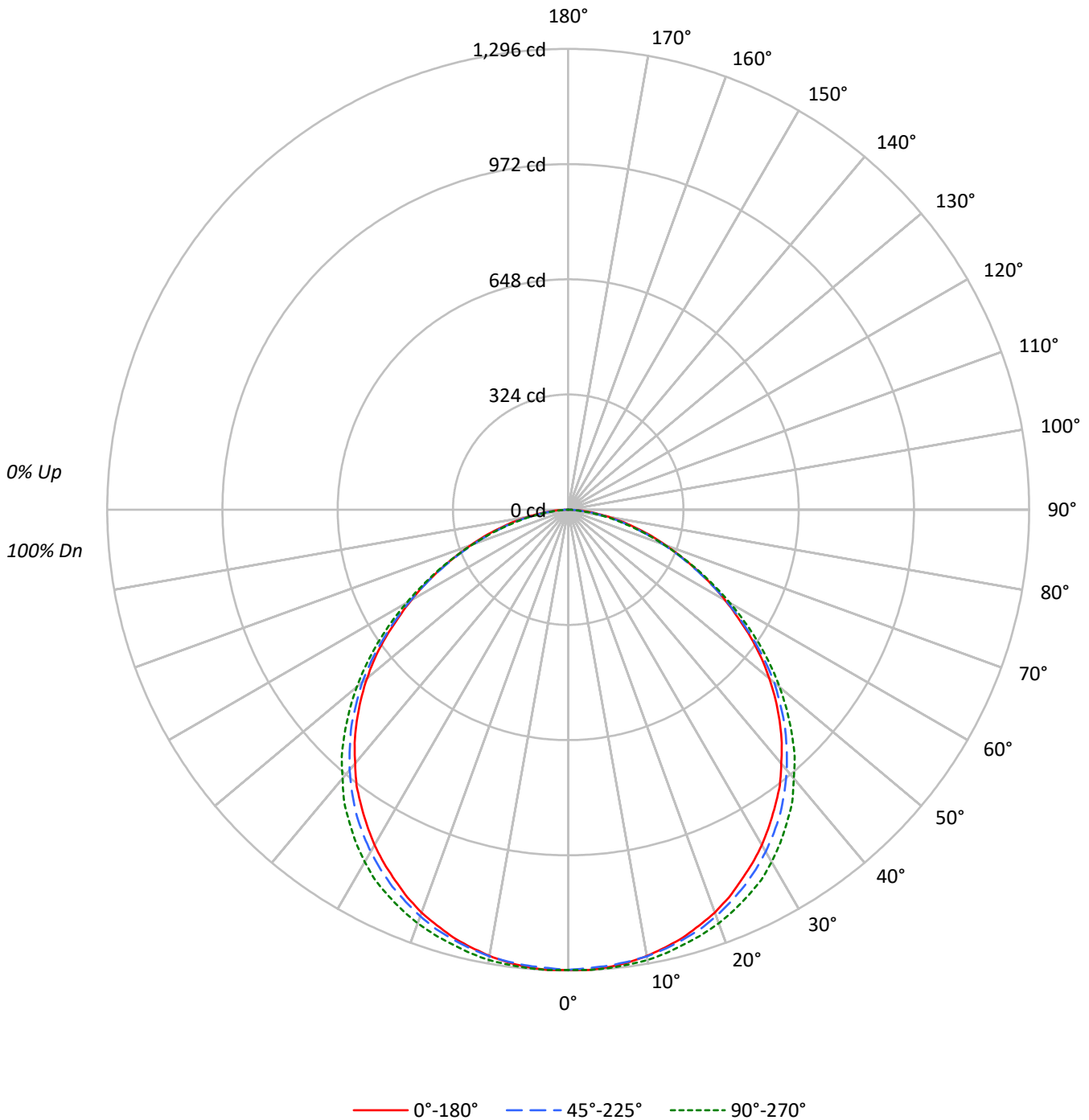
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296316

CATALOG NUMBER: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P296316

CATALOG NUMBER: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5500K

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°	1741	1741	1741
5°	1744	1739	1748
10°	1741	1743	1757
15°	1735	1743	1762
20°	1726	1742	1772
25°	1708	1736	1778
30°	1692	1725	1777
35°	1667	1709	1762
40°	1636	1679	1733
45°	1599	1640	1691
50°	1546	1582	1624
55°	1471	1490	1534
60°	1373	1380	1416
65°	1261	1252	1282
70°	1146	1114	1120
75°	1019	963	956
80°	884	790	769
85°	726	559	435



TEST NUMBER: P296316

CATALOG NUMBER: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.5
10°-20°	353.9	10.0
20°-30°	540.1	15.3
30°-40°	651.2	18.4
40°-50°	664.0	18.8
50°-60°	568.3	16.1
60°-70°	391.5	11.1
70°-80°	200.7	5.7
80°-90°	46.7	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°	1016.7	28.7
0°-40°	1667.9	47.1
0°-60°	2900.2	81.9
0°-90°	3539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1292	1289	1288	1292	1294	123
15°	1246	1245	1251	1261	1265	351
25°	1151	1155	1169	1190	1198	531
35°	1015	1019	1040	1063	1073	635
45°	840	842	862	883	889	648
55°	627	623	635	648	654	559
65°	396	387	393	396	403	394
75°	196	188	185	185	184	211
85°	47	42	36	32	28	55
90°	0	0	0	0	0	



TEST NUMBER: P296316

CATALOG NUMBER: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1295.6	1292.9	1290.2	1292.9	1295.6
5°	1291.5	1288.9	1287.5	1291.5	1294.2
7.5°	1284.8	1282.1	1282.1	1287.5	1290.2
10°	1274.1	1272.7	1275.4	1280.8	1286.2
12.5°	1260.7	1260.7	1264.7	1271.4	1276.8
15°	1245.9	1244.6	1251.3	1260.7	1264.7
17.5°	1225.8	1227.1	1236.5	1247.2	1252.6
20°	1205.6	1207.0	1216.4	1231.1	1237.8
22.5°	1180.1	1182.8	1193.5	1212.3	1219.0
25°	1150.6	1154.6	1169.4	1189.5	1197.6
27.5°	1121.0	1125.1	1141.2	1164.0	1174.7
30°	1088.8	1094.2	1110.3	1134.5	1143.9
32.5°	1052.6	1056.6	1076.7	1100.9	1110.3
35°	1015.0	1019.0	1040.5	1063.3	1072.7
37.5°	977.4	977.4	998.9	1025.7	1035.1
40°	931.7	933.1	955.9	981.4	986.8
42.5°	888.8	888.8	908.9	933.1	942.5
45°	840.4	841.8	861.9	883.4	888.8
47.5°	790.8	790.8	808.2	828.4	833.7
50°	738.4	735.7	755.9	772.0	776.0
52.5°	684.7	680.7	696.8	710.2	715.6
55°	627.0	622.9	635.0	648.5	653.8
57.5°	566.6	561.2	574.6	586.7	589.4
60°	510.2	502.1	512.9	519.6	526.3
62.5°	453.8	444.4	452.4	456.5	461.8
65°	396.1	386.7	393.4	396.1	402.8
67.5°	341.0	334.3	335.6	339.7	342.4
70°	291.3	283.3	283.3	283.3	284.6
72.5°	245.7	233.6	232.3	233.6	233.6
75°	196.0	188.0	185.3	185.3	183.9
77.5°	157.1	146.3	145.0	142.3	139.6
80°	114.1	104.7	102.0	100.7	99.3
82.5°	79.2	71.2	68.5	65.8	61.8
85°	47.0	41.6	36.2	32.2	28.2
87.5°	17.5	16.1	13.4	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)