

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: P296339

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296339
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-LD5-60-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4274.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

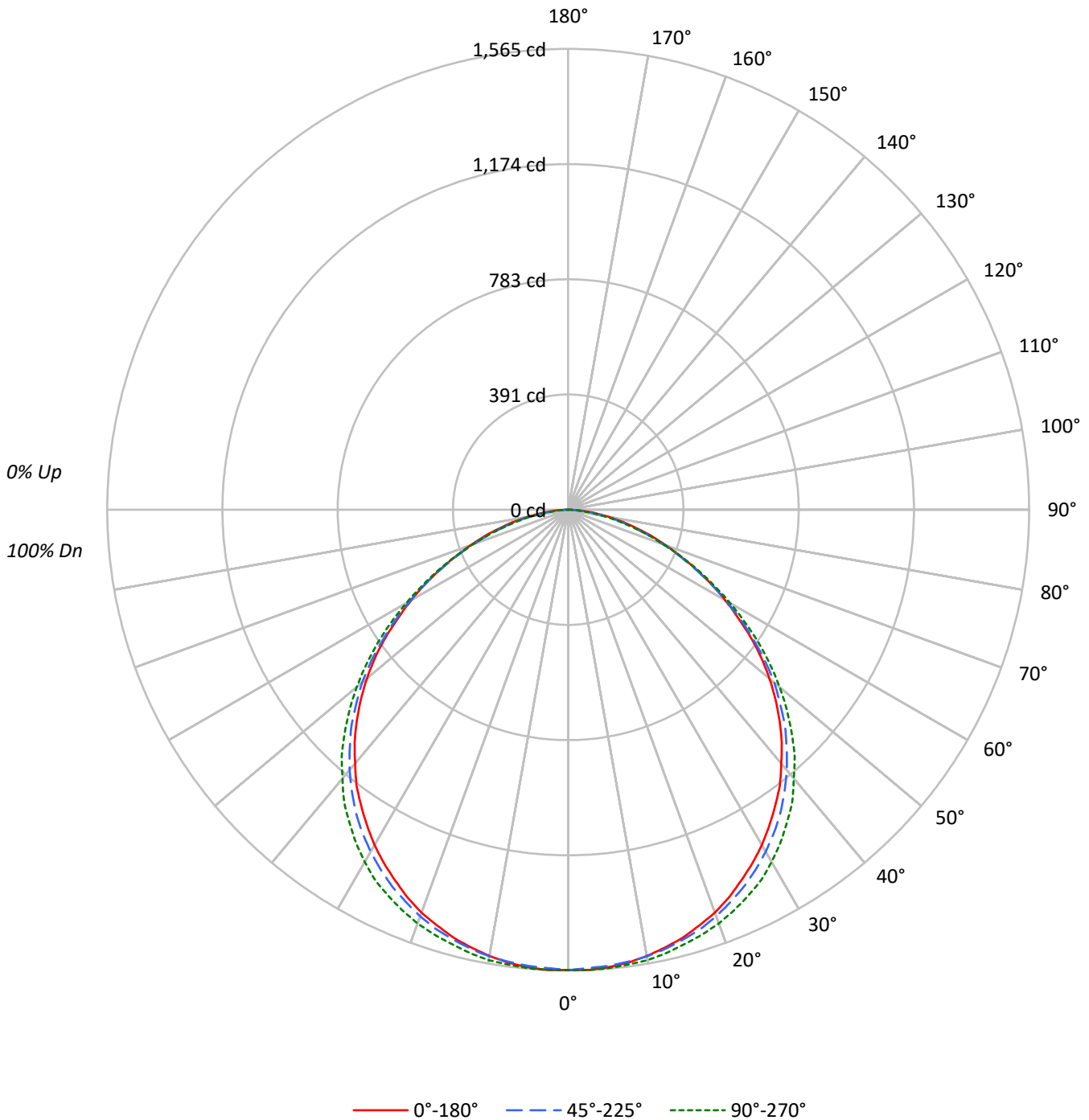
Input Watts (W): 43.338
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296339

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P296339

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3500K

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°	2103	2103	2103
5°	2107	2100	2111
10°	2102	2104	2122
15°	2096	2105	2127
20°	2085	2103	2140
25°	2063	2097	2147
30°	2043	2083	2146
35°	2013	2064	2128
40°	1976	2028	2093
45°	1931	1981	2042
50°	1867	1911	1962
55°	1776	1799	1852
60°	1658	1667	1710
65°	1523	1513	1549
70°	1384	1346	1352
75°	1231	1163	1155
80°	1068	955	930
85°	875	676	525



TEST NUMBER: P296339

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.5
10°-20°	427.3	10.0
20°-30°	652.3	15.3
30°-40°	786.4	18.4
40°-50°	801.9	18.8
50°-60°	686.3	16.1
60°-70°	472.8	11.1
70°-80°	242.3	5.7
80°-90°	56.4	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°	1227.9	28.7
0°-40°	2014.2	47.1
0°-60°	3502.5	81.9
0°-90°	4274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1560	1556	1555	1560	1563	148
15°	1505	1503	1511	1522	1527	424
25°	1390	1394	1412	1436	1446	641
35°	1226	1231	1257	1284	1296	767
45°	1015	1017	1041	1067	1073	782
55°	757	752	767	783	790	675
65°	478	467	475	478	486	475
75°	237	227	224	224	222	255
85°	57	50	44	39	34	66
90°	0	0	0	0	0	



TEST NUMBER: P296339

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.0	1563.0	1563.0	1563.0	1563.0
2.5°	1564.6	1561.4	1558.2	1561.4	1564.6
5°	1559.8	1556.5	1554.9	1559.8	1563.0
7.5°	1551.7	1548.4	1548.4	1554.9	1558.2
10°	1538.7	1537.1	1540.3	1546.8	1553.3
12.5°	1522.5	1522.5	1527.3	1535.5	1541.9
15°	1504.6	1503.0	1511.1	1522.5	1527.3
17.5°	1480.3	1481.9	1493.3	1506.3	1512.8
20°	1456.0	1457.6	1469.0	1486.8	1494.9
22.5°	1425.2	1428.4	1441.4	1464.1	1472.2
25°	1389.5	1394.4	1412.2	1436.5	1446.3
27.5°	1353.9	1358.7	1378.2	1405.7	1418.7
30°	1314.9	1321.4	1340.9	1370.1	1381.4
32.5°	1271.2	1276.0	1300.4	1329.5	1340.9
35°	1225.8	1230.6	1256.6	1284.1	1295.5
37.5°	1180.4	1180.4	1206.3	1238.7	1250.1
40°	1125.2	1126.9	1154.4	1185.2	1191.7
42.5°	1073.4	1073.4	1097.7	1126.9	1138.2
45°	1015.0	1016.6	1040.9	1066.9	1073.4
47.5°	955.0	955.0	976.1	1000.4	1006.9
50°	891.8	888.5	912.8	932.3	937.2
52.5°	826.9	822.0	841.5	857.7	864.2
55°	757.2	752.3	766.9	783.1	789.6
57.5°	684.2	677.7	694.0	708.5	711.8
60°	616.1	606.4	619.4	627.5	635.6
62.5°	548.0	536.7	546.4	551.3	557.8
65°	478.3	467.0	475.1	478.3	486.4
67.5°	411.8	403.7	405.3	410.2	413.5
70°	351.8	342.1	342.1	342.1	343.7
72.5°	296.7	282.1	280.5	282.1	282.1
75°	236.7	227.0	223.8	223.8	222.1
77.5°	189.7	176.7	175.1	171.9	168.6
80°	137.8	126.5	123.2	121.6	120.0
82.5°	95.7	85.9	82.7	79.4	74.6
85°	56.7	50.3	43.8	38.9	34.0
87.5°	21.1	19.5	16.2	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)