

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: P296038

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296038
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-LD5-45-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

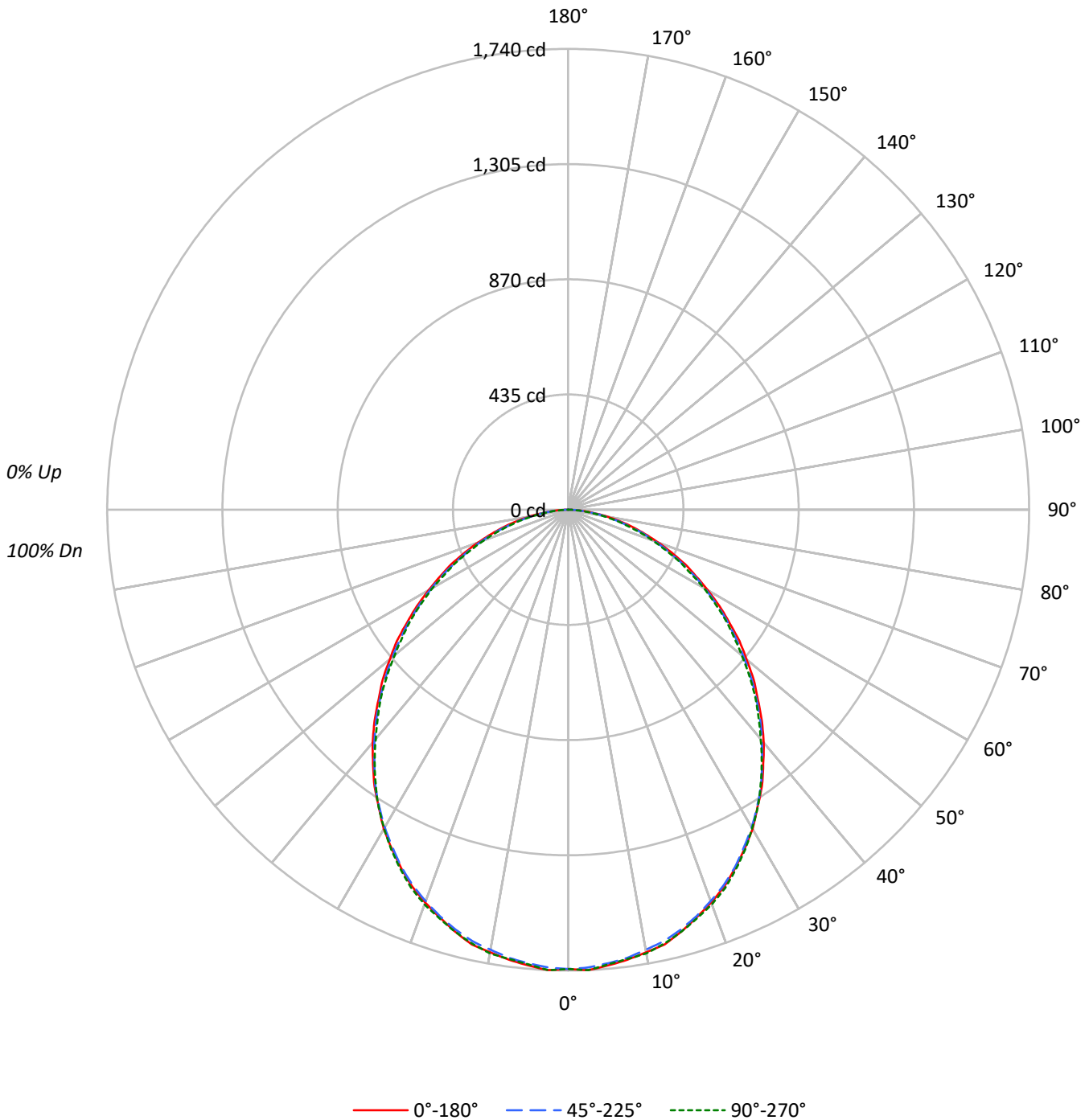
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296038

CATALOG NUMBER: 24RLN-LD5-45-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P296038

CATALOG NUMBER: 24RLN-LD5-45-UNV-L92765-W2A1-U-6500K

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°	2334	2334	2334
5°	2333	2322	2328
10°	2318	2305	2324
15°	2298	2286	2298
20°	2260	2252	2270
25°	2215	2211	2224
30°	2163	2152	2158
35°	2094	2085	2081
40°	2017	1998	1985
45°	1926	1907	1899
50°	1839	1810	1789
55°	1741	1714	1698
60°	1637	1607	1588
65°	1547	1489	1476
70°	1418	1364	1336
75°	1303	1223	1172
80°	1144	1068	1003
85°	925	860	730



TEST NUMBER: P296038

CATALOG NUMBER: 24RLN-LD5-45-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.8
10°-20°	464.0	10.8
20°-30°	686.3	15.9
30°-40°	792.0	18.4
40°-50°	773.6	17.9
50°-60°	653.2	15.1
60°-70°	465.3	10.8
70°-80°	251.9	5.8
80°-90°	65.0	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°	1313.9	30.4
0°-40°	2106.0	48.8
0°-60°	3532.8	81.9
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1728	1728	1719	1723	1723	164
15°	1650	1643	1641	1648	1650	465
25°	1492	1484	1490	1495	1498	687
35°	1275	1265	1270	1265	1267	796
45°	1012	1004	1002	998	998	783
55°	742	732	731	724	724	665
65°	486	476	468	462	464	479
75°	251	242	235	230	226	265
85°	60	58	56	49	47	70
90°	0	0	0	0	0	



TEST NUMBER: P296038

CATALOG NUMBER: 24RLN-LD5-45-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1740.1	1733.1	1730.3	1731.7	1740.1
5°	1727.5	1727.5	1719.2	1723.4	1723.4
7.5°	1713.6	1715.0	1706.7	1713.6	1710.8
10°	1696.9	1692.7	1687.2	1698.3	1701.1
12.5°	1681.6	1671.9	1669.1	1676.0	1677.4
15°	1649.6	1642.6	1641.2	1648.2	1649.6
17.5°	1613.4	1614.8	1609.2	1619.0	1617.6
20°	1578.6	1575.8	1573.0	1584.2	1585.6
22.5°	1539.6	1531.3	1534.1	1543.8	1546.6
25°	1492.3	1483.9	1489.5	1495.1	1497.9
27.5°	1442.2	1438.0	1436.6	1443.6	1446.4
30°	1392.1	1385.1	1385.1	1393.5	1389.3
32.5°	1330.8	1325.2	1328.0	1330.8	1332.2
35°	1275.1	1265.4	1269.6	1265.4	1266.8
37.5°	1209.7	1202.7	1201.3	1200.0	1200.0
40°	1148.4	1142.9	1137.3	1137.3	1130.4
42.5°	1081.6	1074.7	1071.9	1067.7	1063.5
45°	1012.0	1003.7	1002.3	998.1	998.1
47.5°	949.4	936.9	935.5	927.1	927.1
50°	878.4	870.0	864.5	858.9	854.7
52.5°	814.4	806.0	797.7	792.1	787.9
55°	742.0	732.2	730.8	723.9	723.9
57.5°	676.5	668.2	662.6	654.3	655.7
60°	608.3	600.0	597.2	590.2	590.2
62.5°	544.3	537.3	533.2	526.2	520.6
65°	485.8	476.1	467.7	462.2	463.6
67.5°	421.8	410.7	406.5	400.9	396.7
70°	360.5	353.6	346.6	339.7	339.7
72.5°	303.5	296.5	292.3	284.0	281.2
75°	250.6	242.2	235.3	229.7	225.5
77.5°	197.7	189.3	185.1	178.2	178.2
80°	147.6	142.0	137.8	135.0	129.5
82.5°	101.6	98.8	94.7	90.5	86.3
85°	59.9	58.5	55.7	48.7	47.3
87.5°	23.7	23.7	20.9	19.5	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)