

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: P296058

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296058
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-LD5-60-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4909.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

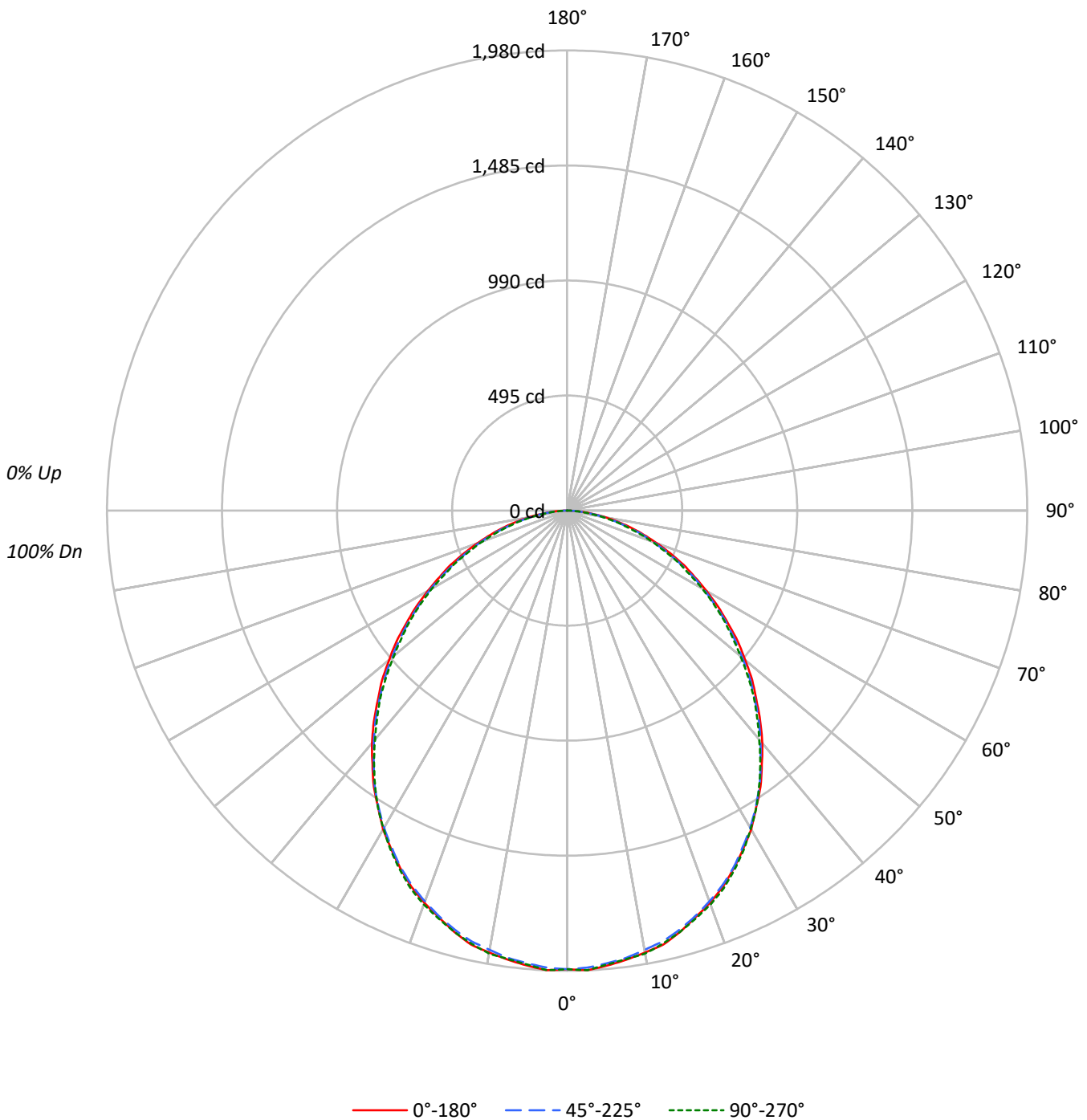
Input Watts (W): 42.873
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296058

CATALOG NUMBER: 24RLN-LD5-60-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296058

CATALOG NUMBER: 24RLN-LD5-60-UNV-L92765-W2A1-U-3000K

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°	2655	2655	2655
5°	2655	2642	2648
10°	2638	2622	2644
15°	2614	2601	2614
20°	2571	2562	2583
25°	2520	2516	2530
30°	2460	2448	2456
35°	2383	2372	2367
40°	2295	2273	2259
45°	2191	2170	2161
50°	2092	2059	2035
55°	1980	1950	1932
60°	1862	1828	1807
65°	1760	1694	1679
70°	1614	1551	1520
75°	1482	1391	1334
80°	1301	1215	1141
85°	1051	977	831



TEST NUMBER: P296058

CATALOG NUMBER: 24RLN-LD5-60-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.8
10°-20°	527.8	10.8
20°-30°	780.8	15.9
30°-40°	901.1	18.4
40°-50°	880.1	17.9
50°-60°	743.2	15.1
60°-70°	529.3	10.8
70°-80°	286.6	5.8
80°-90°	73.9	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°	1494.8	30.4
0°-40°	2395.9	48.8
0°-60°	4019.1	81.9
0°-90°	4909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1965	1965	1956	1961	1961	187
15°	1877	1869	1867	1875	1877	529
25°	1698	1688	1694	1701	1704	782
35°	1451	1440	1444	1440	1441	905
45°	1151	1142	1140	1136	1136	890
55°	844	833	831	824	824	757
65°	553	542	532	526	527	545
75°	285	276	268	261	257	302
85°	68	66	63	55	54	80
90°	0	0	0	0	0	



TEST NUMBER: P296058

CATALOG NUMBER: 24RLN-LD5-60-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.3	1973.3	1973.3	1973.3	1973.3
2.5°	1979.6	1971.7	1968.5	1970.1	1979.6
5°	1965.4	1965.4	1955.9	1960.6	1960.6
7.5°	1949.5	1951.1	1941.6	1949.5	1946.4
10°	1930.5	1925.8	1919.4	1932.1	1935.3
12.5°	1913.1	1902.0	1898.8	1906.8	1908.3
15°	1876.7	1868.8	1867.2	1875.1	1876.7
17.5°	1835.5	1837.1	1830.7	1841.8	1840.2
20°	1795.9	1792.7	1789.6	1802.2	1803.8
22.5°	1751.6	1742.1	1745.2	1756.3	1759.5
25°	1697.7	1688.2	1694.5	1700.9	1704.1
27.5°	1640.7	1636.0	1634.4	1642.3	1645.5
30°	1583.7	1575.8	1575.8	1585.3	1580.5
32.5°	1514.0	1507.7	1510.8	1514.0	1515.6
35°	1450.7	1439.6	1444.3	1439.6	1441.2
37.5°	1376.2	1368.3	1366.7	1365.1	1365.1
40°	1306.5	1300.2	1293.9	1293.9	1286.0
42.5°	1230.5	1222.6	1219.4	1214.7	1209.9
45°	1151.3	1141.8	1140.3	1135.5	1135.5
47.5°	1080.1	1065.8	1064.2	1054.7	1054.7
50°	999.3	989.8	983.5	977.1	972.4
52.5°	926.5	917.0	907.5	901.1	896.4
55°	844.1	833.0	831.4	823.5	823.5
57.5°	769.7	760.2	753.8	744.3	745.9
60°	692.1	682.6	679.4	671.5	671.5
62.5°	619.2	611.3	606.6	598.6	592.3
65°	552.7	541.6	532.1	525.8	527.4
67.5°	479.9	467.2	462.4	456.1	451.4
70°	410.2	402.3	394.3	386.4	386.4
72.5°	345.2	337.3	332.6	323.1	319.9
75°	285.1	275.6	267.6	261.3	256.6
77.5°	224.9	215.4	210.6	202.7	202.7
80°	167.9	161.5	156.8	153.6	147.3
82.5°	115.6	112.4	107.7	102.9	98.2
85°	68.1	66.5	63.3	55.4	53.8
87.5°	26.9	26.9	23.8	22.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)