

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: P295825

Luminaire Tested: **24RLN-LD5-42-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295825
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-LD5-42-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.0 lumens
Efficiency: N/A
Efficacy: 148.7 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

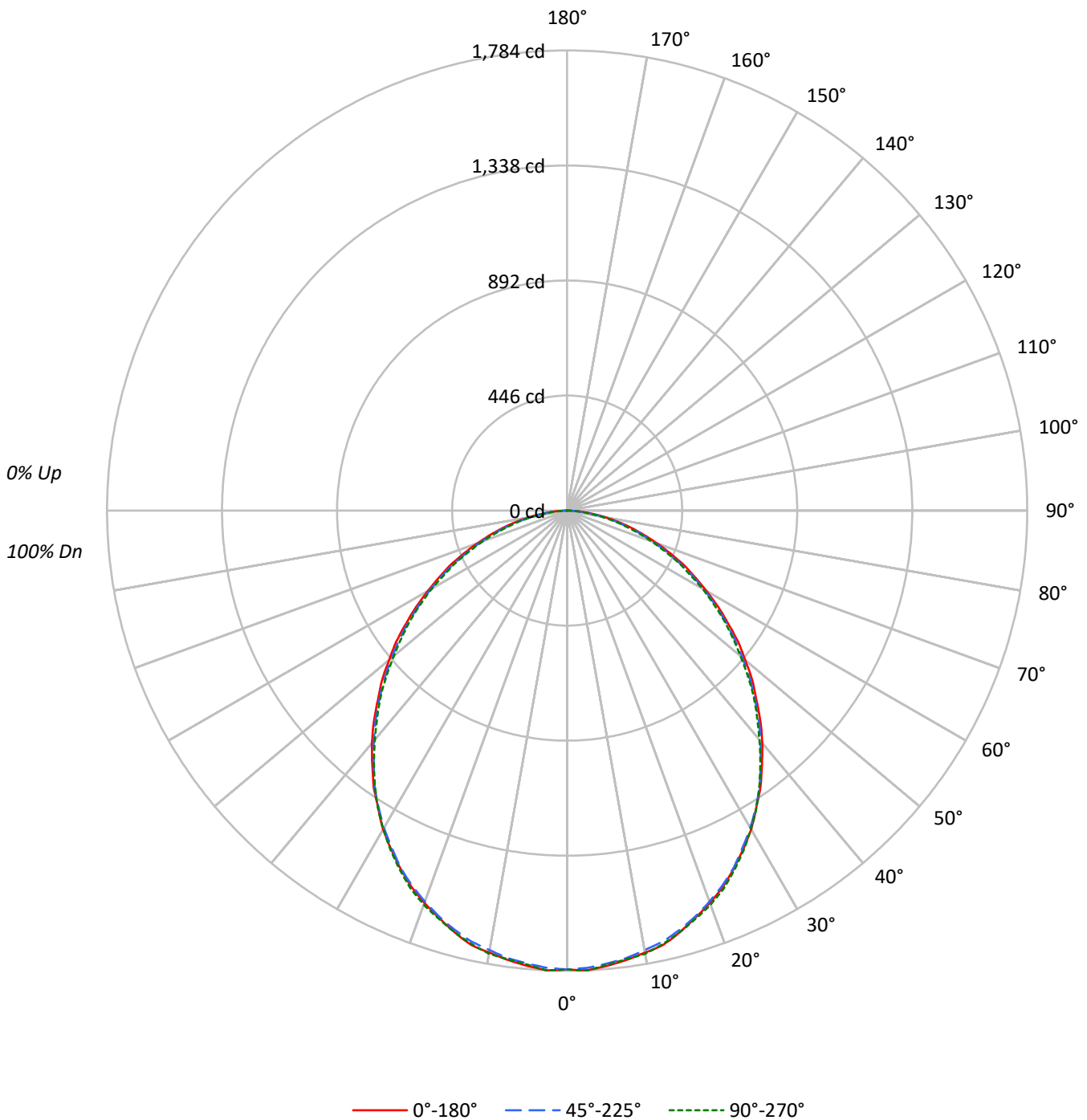
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295825

CATALOG NUMBER: 24RLN-LD5-42-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295825

CATALOG NUMBER: 24RLN-LD5-42-UNV-L83050-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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2393	2393	2393
5°	2393	2381	2387
10°	2378	2364	2383
15°	2356	2344	2356
20°	2318	2310	2328
25°	2272	2268	2280
30°	2218	2207	2213
35°	2148	2138	2134
40°	2069	2049	2036
45°	1975	1956	1948
50°	1886	1856	1835
55°	1785	1758	1741
60°	1679	1648	1629
65°	1586	1527	1514
70°	1454	1399	1370
75°	1336	1254	1202
80°	1172	1095	1029
85°	948	881	749



TEST NUMBER: P295825

CATALOG NUMBER: 24RLN-LD5-42-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.8
10°-20°	475.8	10.8
20°-30°	703.8	15.9
30°-40°	812.2	18.4
40°-50°	793.3	17.9
50°-60°	669.9	15.1
60°-70°	477.1	10.8
70°-80°	258.4	5.8
80°-90°	66.7	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°	1347.4	30.4
0°-40°	2159.6	48.8
0°-60°	3622.8	81.9
0°-90°	4425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1772	1772	1763	1767	1767	168
15°	1692	1684	1683	1690	1692	476
25°	1530	1522	1528	1533	1536	705
35°	1308	1298	1302	1298	1299	816
45°	1038	1029	1028	1024	1024	802
55°	761	751	750	742	742	682
65°	498	488	480	474	475	491
75°	257	248	241	236	231	272
85°	61	60	57	50	48	72
90°	0	0	0	0	0	



TEST NUMBER: P295825

CATALOG NUMBER: 24RLN-LD5-42-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1784.4	1777.3	1774.4	1775.9	1784.4
5°	1771.6	1771.6	1763.0	1767.3	1767.3
7.5°	1757.3	1758.7	1750.2	1757.3	1754.5
10°	1740.2	1735.9	1730.2	1741.6	1744.5
12.5°	1724.5	1714.5	1711.6	1718.8	1720.2
15°	1691.6	1684.5	1683.1	1690.2	1691.6
17.5°	1654.5	1656.0	1650.2	1660.2	1658.8
20°	1618.8	1616.0	1613.1	1624.5	1626.0
22.5°	1578.9	1570.3	1573.2	1583.2	1586.0
25°	1530.3	1521.8	1527.5	1533.2	1536.0
27.5°	1478.9	1474.7	1473.2	1480.4	1483.2
30°	1427.5	1420.4	1420.4	1429.0	1424.7
32.5°	1364.7	1359.0	1361.9	1364.7	1366.2
35°	1307.6	1297.6	1301.9	1297.6	1299.1
37.5°	1240.5	1233.4	1232.0	1230.5	1230.5
40°	1177.7	1172.0	1166.3	1166.3	1159.2
42.5°	1109.2	1102.1	1099.2	1094.9	1090.6
45°	1037.8	1029.3	1027.8	1023.6	1023.6
47.5°	973.6	960.7	959.3	950.7	950.7
50°	900.8	892.2	886.5	880.8	876.5
52.5°	835.1	826.5	818.0	812.3	808.0
55°	760.9	750.9	749.5	742.3	742.3
57.5°	693.8	685.2	679.5	670.9	672.4
60°	623.8	615.3	612.4	605.3	605.3
62.5°	558.2	551.0	546.8	539.6	533.9
65°	498.2	488.2	479.7	473.9	475.4
67.5°	432.5	421.1	416.8	411.1	406.9
70°	369.7	362.6	355.5	348.3	348.3
72.5°	311.2	304.1	299.8	291.2	288.4
75°	257.0	248.4	241.3	235.5	231.3
77.5°	202.7	194.1	189.9	182.7	182.7
80°	151.3	145.6	141.3	138.5	132.8
82.5°	104.2	101.4	97.1	92.8	88.5
85°	61.4	60.0	57.1	50.0	48.5
87.5°	24.3	24.3	21.4	20.0	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)