

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: P295830

Luminaire Tested: **24RLN-LD5-45-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295830
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-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: 4774.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

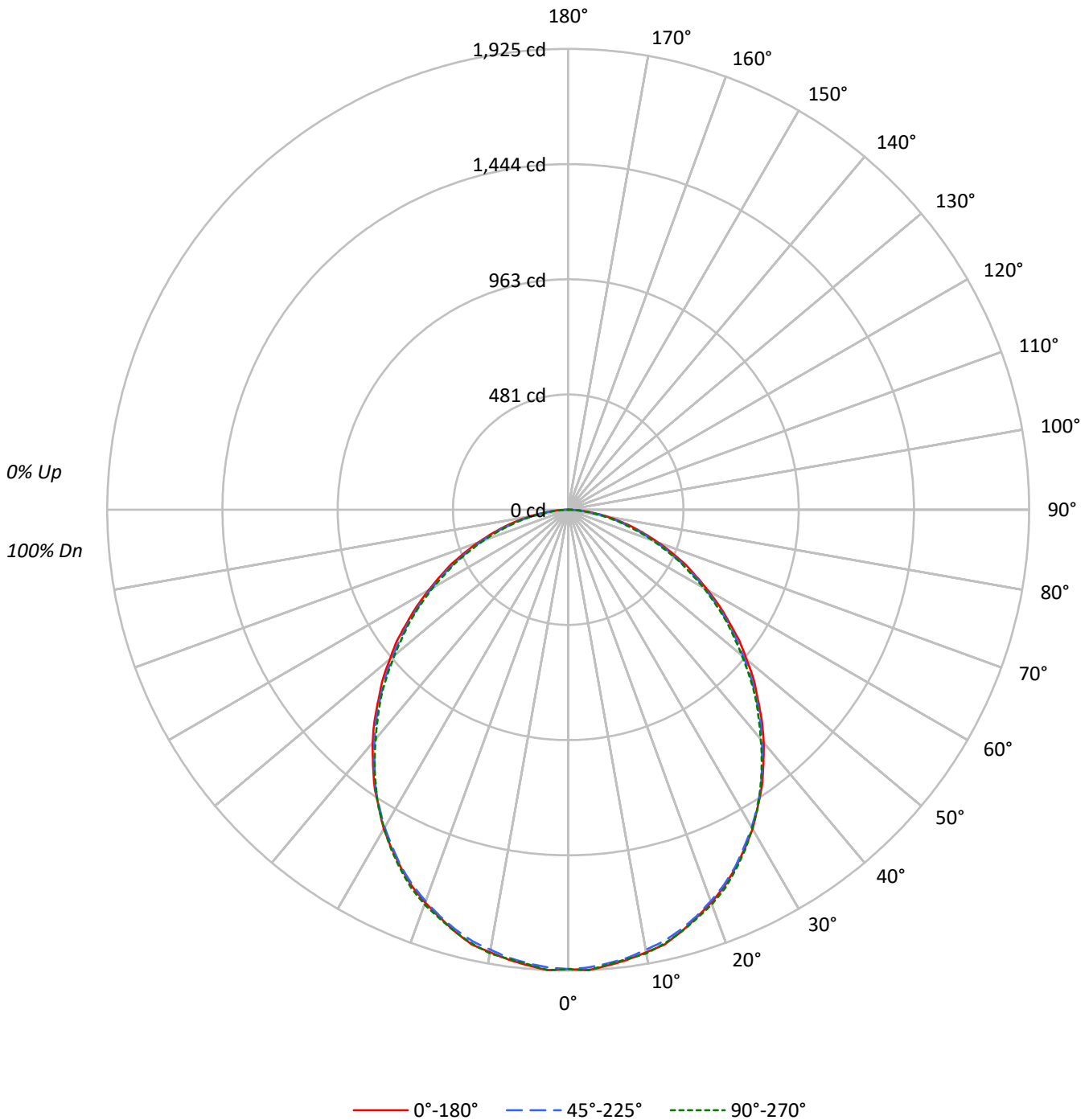
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295830

CATALOG NUMBER: 24RLN-LD5-45-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295830

CATALOG NUMBER: 24RLN-LD5-45-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	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°	2582	2582	2582
5°	2581	2569	2575
10°	2565	2550	2571
15°	2542	2529	2542
20°	2501	2492	2512
25°	2451	2446	2460
30°	2393	2381	2388
35°	2317	2307	2302
40°	2232	2210	2197
45°	2131	2110	2101
50°	2034	2002	1979
55°	1926	1897	1879
60°	1811	1778	1757
65°	1711	1648	1633
70°	1569	1509	1478
75°	1441	1353	1297
80°	1265	1182	1110
85°	1022	951	809



TEST NUMBER: P295830

CATALOG NUMBER: 24RLN-LD5-45-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.8
10°-20°	513.3	10.8
20°-30°	759.3	15.9
30°-40°	876.3	18.4
40°-50°	855.9	17.9
50°-60°	722.7	15.1
60°-70°	514.8	10.8
70°-80°	278.7	5.8
80°-90°	71.9	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°	1453.7	30.4
0°-40°	2330.0	48.8
0°-60°	3908.6	81.9
0°-90°	4774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1911	1911	1902	1907	1907	181
15°	1825	1817	1816	1824	1825	514
25°	1651	1642	1648	1654	1657	760
35°	1411	1400	1405	1400	1402	880
45°	1120	1110	1109	1104	1104	866
55°	821	810	809	801	801	736
65°	538	527	518	511	513	530
75°	277	268	260	254	250	293
85°	66	65	62	54	52	78
90°	0	0	0	0	0	



TEST NUMBER: P295830

CATALOG NUMBER: 24RLN-LD5-45-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.0	1919.0	1919.0	1919.0	1919.0
2.5°	1925.2	1917.5	1914.4	1915.9	1925.2
5°	1911.3	1911.3	1902.1	1906.7	1906.7
7.5°	1895.9	1897.5	1888.2	1895.9	1892.8
10°	1877.4	1872.8	1866.6	1879.0	1882.0
12.5°	1860.5	1849.7	1846.6	1854.3	1855.9
15°	1825.1	1817.4	1815.8	1823.5	1825.1
17.5°	1785.0	1786.6	1780.4	1791.2	1789.6
20°	1746.5	1743.4	1740.4	1752.7	1754.2
22.5°	1703.4	1694.2	1697.2	1708.0	1711.1
25°	1651.0	1641.8	1647.9	1654.1	1657.2
27.5°	1595.6	1591.0	1589.4	1597.1	1600.2
30°	1540.1	1532.4	1532.4	1541.7	1537.1
32.5°	1472.4	1466.2	1469.3	1472.4	1473.9
35°	1410.8	1400.0	1404.6	1400.0	1401.5
37.5°	1338.4	1330.7	1329.1	1327.6	1327.6
40°	1270.6	1264.5	1258.3	1258.3	1250.6
42.5°	1196.7	1189.0	1185.9	1181.3	1176.7
45°	1119.7	1110.4	1108.9	1104.3	1104.3
47.5°	1050.4	1036.5	1035.0	1025.7	1025.7
50°	971.8	962.6	956.4	950.3	945.6
52.5°	901.0	891.7	882.5	876.3	871.7
55°	820.9	810.1	808.6	800.9	800.9
57.5°	748.5	739.3	733.1	723.9	725.4
60°	673.0	663.8	660.7	653.0	653.0
62.5°	602.2	594.5	589.9	582.2	576.0
65°	537.5	526.7	517.5	511.3	512.9
67.5°	466.7	454.3	449.7	443.6	438.9
70°	398.9	391.2	383.5	375.8	375.8
72.5°	335.8	328.0	323.4	314.2	311.1
75°	277.2	268.0	260.3	254.1	249.5
77.5°	218.7	209.5	204.8	197.1	197.1
80°	163.3	157.1	152.5	149.4	143.2
82.5°	112.4	109.3	104.7	100.1	95.5
85°	66.2	64.7	61.6	53.9	52.4
87.5°	26.2	26.2	23.1	21.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)