

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: P295834

Luminaire Tested: **24RLN-LD5-50-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295834
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-LD5-50-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4991.0 lumens
Efficiency: N/A
Efficacy: 142.7 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

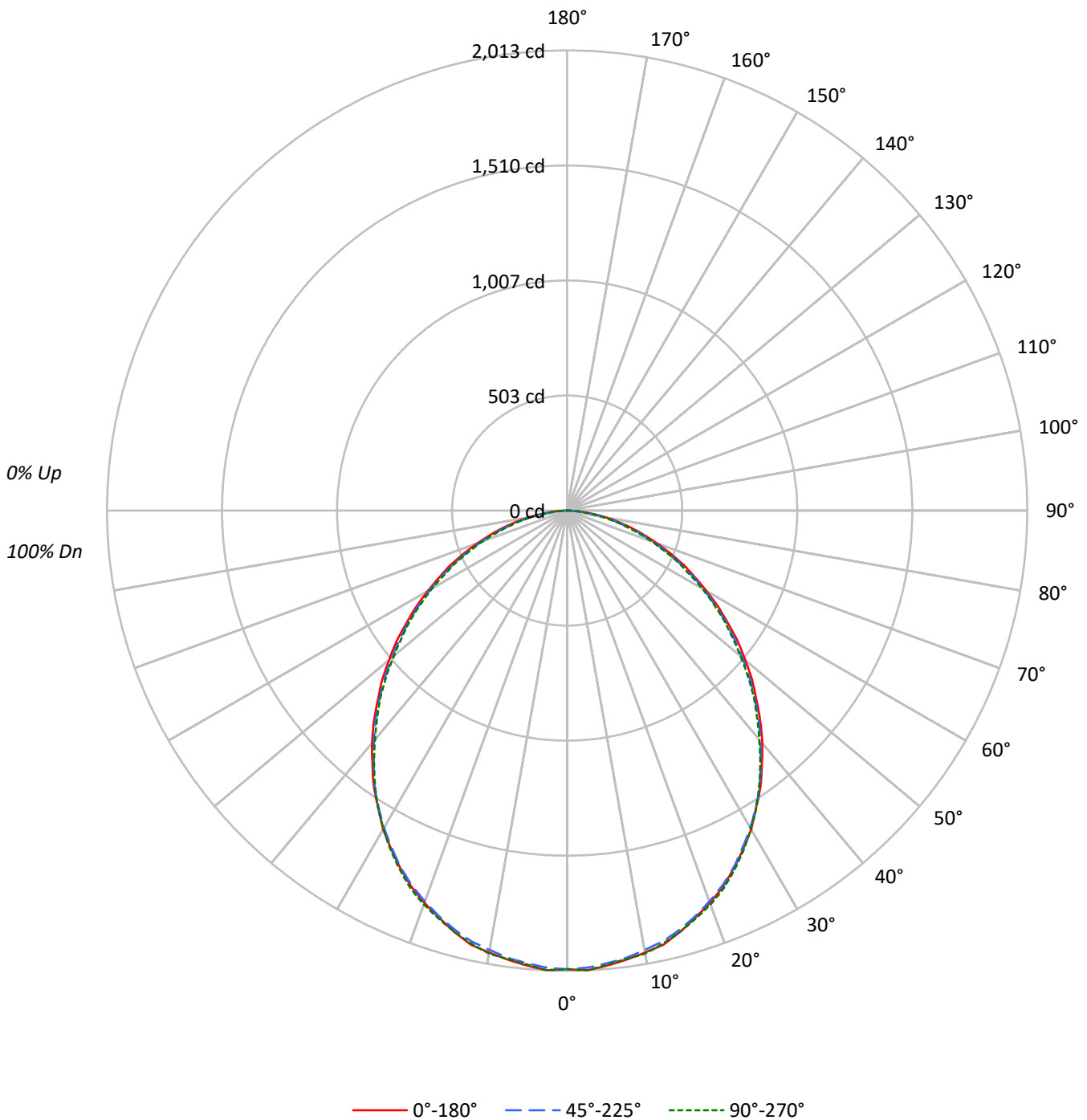
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295834

CATALOG NUMBER: 24RLN-LD5-50-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P295834

CATALOG NUMBER: 24RLN-LD5-50-UNV-L83050-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	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°	2699	2699	2699
5°	2699	2686	2692
10°	2682	2666	2688
15°	2658	2644	2658
20°	2614	2605	2626
25°	2563	2558	2572
30°	2502	2489	2497
35°	2423	2412	2407
40°	2333	2311	2296
45°	2227	2206	2197
50°	2127	2093	2069
55°	2013	1983	1964
60°	1893	1859	1837
65°	1789	1722	1707
70°	1640	1577	1546
75°	1507	1415	1356
80°	1323	1235	1160
85°	1068	994	844



TEST NUMBER: P295834

CATALOG NUMBER: 24RLN-LD5-50-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	3.8
10°-20°	536.6	10.8
20°-30°	793.8	15.9
30°-40°	916.1	18.4
40°-50°	894.8	17.9
50°-60°	755.6	15.1
60°-70°	538.2	10.8
70°-80°	291.4	5.8
80°-90°	75.2	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°	1519.7	30.4
0°-40°	2435.9	48.8
0°-60°	4086.2	81.9
0°-90°	4991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	1998	1998	1988	1993	1993	190
15°	1908	1900	1898	1906	1908	537
25°	1726	1716	1723	1729	1732	795
35°	1475	1464	1468	1464	1465	920
45°	1171	1161	1159	1154	1154	905
55°	858	847	845	837	837	769
65°	562	551	541	535	536	554
75°	290	280	272	266	261	307
85°	69	68	64	56	55	81
90°	0	0	0	0	0	



TEST NUMBER: P295834

CATALOG NUMBER: 24RLN-LD5-50-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2012.7	2004.6	2001.4	2003.0	2012.7
5°	1998.2	1998.2	1988.5	1993.4	1993.4
7.5°	1982.1	1983.7	1974.0	1982.1	1978.9
10°	1962.8	1957.9	1951.5	1964.4	1967.6
12.5°	1945.1	1933.8	1930.6	1938.6	1940.2
15°	1908.0	1900.0	1898.4	1906.4	1908.0
17.5°	1866.2	1867.8	1861.3	1872.6	1871.0
20°	1825.9	1822.7	1819.5	1832.3	1834.0
22.5°	1780.8	1771.2	1774.4	1785.7	1788.9
25°	1726.1	1716.4	1722.9	1729.3	1732.5
27.5°	1668.1	1663.3	1661.7	1669.7	1672.9
30°	1610.1	1602.1	1602.1	1611.8	1606.9
32.5°	1539.3	1532.9	1536.1	1539.3	1540.9
35°	1474.9	1463.6	1468.5	1463.6	1465.2
37.5°	1399.2	1391.2	1389.6	1387.9	1387.9
40°	1328.4	1321.9	1315.5	1315.5	1307.4
42.5°	1251.1	1243.0	1239.8	1235.0	1230.2
45°	1170.6	1160.9	1159.3	1154.5	1154.5
47.5°	1098.1	1083.6	1082.0	1072.4	1072.4
50°	1016.0	1006.3	999.9	993.5	988.6
52.5°	941.9	932.3	922.6	916.2	911.3
55°	858.2	846.9	845.3	837.3	837.3
57.5°	782.5	772.9	766.4	756.8	758.4
60°	703.6	694.0	690.8	682.7	682.7
62.5°	629.6	621.5	616.7	608.6	602.2
65°	561.9	550.7	541.0	534.6	536.2
67.5°	487.9	475.0	470.2	463.7	458.9
70°	417.0	409.0	400.9	392.9	392.9
72.5°	351.0	343.0	338.1	328.5	325.2
75°	289.8	280.2	272.1	265.7	260.8
77.5°	228.6	219.0	214.1	206.1	206.1
80°	170.7	164.2	159.4	156.2	149.7
82.5°	117.5	114.3	109.5	104.7	99.8
85°	69.2	67.6	64.4	56.4	54.7
87.5°	27.4	27.4	24.2	22.5	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)