

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: P295903

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295903
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-L82765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5070.0 lumens
Efficiency: N/A
Efficacy: 142.3 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

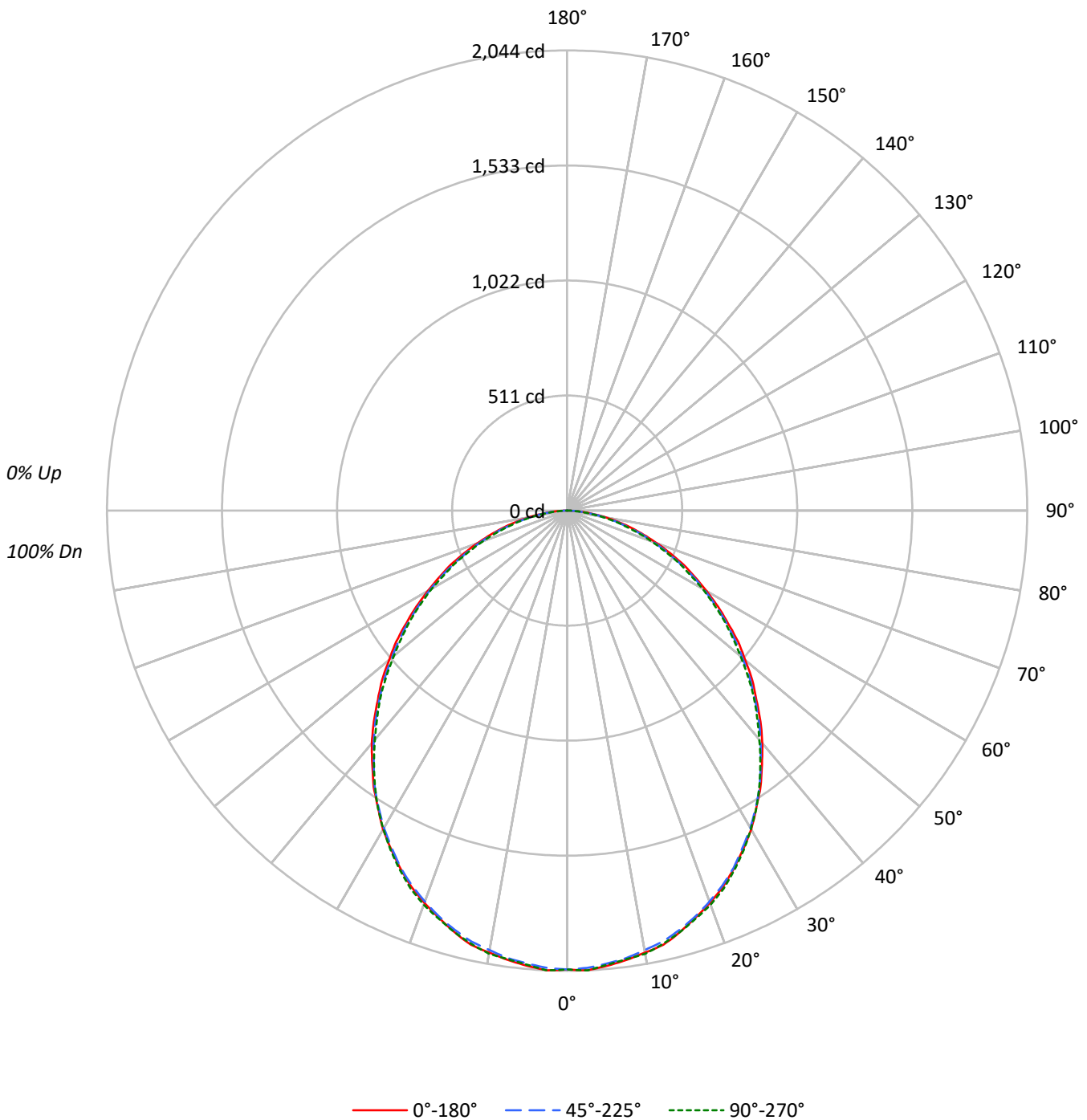
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2742	2742	2742
5°	2742	2728	2735
10°	2724	2708	2731
15°	2700	2686	2700
20°	2656	2646	2668
25°	2603	2598	2613
30°	2541	2529	2536
35°	2461	2450	2445
40°	2370	2347	2333
45°	2263	2241	2231
50°	2160	2126	2102
55°	2045	2014	1995
60°	1924	1888	1866
65°	1817	1750	1734
70°	1666	1602	1570
75°	1530	1437	1378
80°	1344	1254	1179
85°	1085	1010	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	3.8
10°-20°	545.1	10.8
20°-30°	806.4	15.9
30°-40°	930.6	18.4
40°-50°	908.9	17.9
50°-60°	767.5	15.1
60°-70°	546.7	10.8
70°-80°	296.0	5.8
80°-90°	76.4	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°	1543.8	30.4
0°-40°	2474.4	48.8
0°-60°	4150.9	81.9
0°-90°	5070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2030	2030	2020	2025	2025	193
15°	1938	1930	1928	1937	1938	546
25°	1753	1744	1750	1757	1760	807
35°	1498	1487	1492	1487	1488	935
45°	1189	1179	1178	1173	1173	919
55°	872	860	859	850	850	782
65°	571	559	550	543	545	563
75°	294	285	276	270	265	312
85°	70	69	65	57	56	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2038.0	2038.0	2038.0	2038.0	2038.0
2.5°	2044.5	2036.4	2033.1	2034.7	2044.5
5°	2029.8	2029.8	2020.0	2024.9	2024.9
7.5°	2013.5	2015.1	2005.3	2013.5	2010.2
10°	1993.8	1988.9	1982.4	1995.5	1998.7
12.5°	1975.8	1964.4	1961.1	1969.3	1970.9
15°	1938.2	1930.0	1928.4	1936.6	1938.2
17.5°	1895.7	1897.3	1890.8	1902.2	1900.6
20°	1854.8	1851.5	1848.3	1861.3	1863.0
22.5°	1809.0	1799.2	1802.5	1813.9	1817.2
25°	1753.4	1743.6	1750.1	1756.7	1759.9
27.5°	1694.5	1689.6	1688.0	1696.1	1699.4
30°	1635.6	1627.5	1627.5	1637.3	1632.4
32.5°	1563.7	1557.1	1560.4	1563.7	1565.3
35°	1498.2	1486.8	1491.7	1486.8	1488.4
37.5°	1421.4	1413.2	1411.5	1409.9	1409.9
40°	1349.4	1342.9	1336.3	1336.3	1328.1
42.5°	1270.9	1262.7	1259.4	1254.5	1249.6
45°	1189.1	1179.3	1177.7	1172.7	1172.7
47.5°	1115.5	1100.8	1099.1	1089.3	1089.3
50°	1032.1	1022.3	1015.7	1009.2	1004.3
52.5°	956.8	947.0	937.2	930.7	925.8
55°	871.8	860.3	858.7	850.5	850.5
57.5°	794.9	785.1	778.6	768.7	770.4
60°	714.8	705.0	701.7	693.5	693.5
62.5°	639.5	631.4	626.4	618.3	611.7
65°	570.8	559.4	549.6	543.0	544.7
67.5°	495.6	482.5	477.6	471.1	466.2
70°	423.6	415.5	407.3	399.1	399.1
72.5°	356.6	348.4	343.5	333.7	330.4
75°	294.4	284.6	276.4	269.9	265.0
77.5°	232.3	222.4	217.5	209.4	209.4
80°	173.4	166.8	161.9	158.7	152.1
82.5°	119.4	116.1	111.2	106.3	101.4
85°	70.3	68.7	65.4	57.2	55.6
87.5°	27.8	27.8	24.5	22.9	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)