

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: P296046

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296046
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

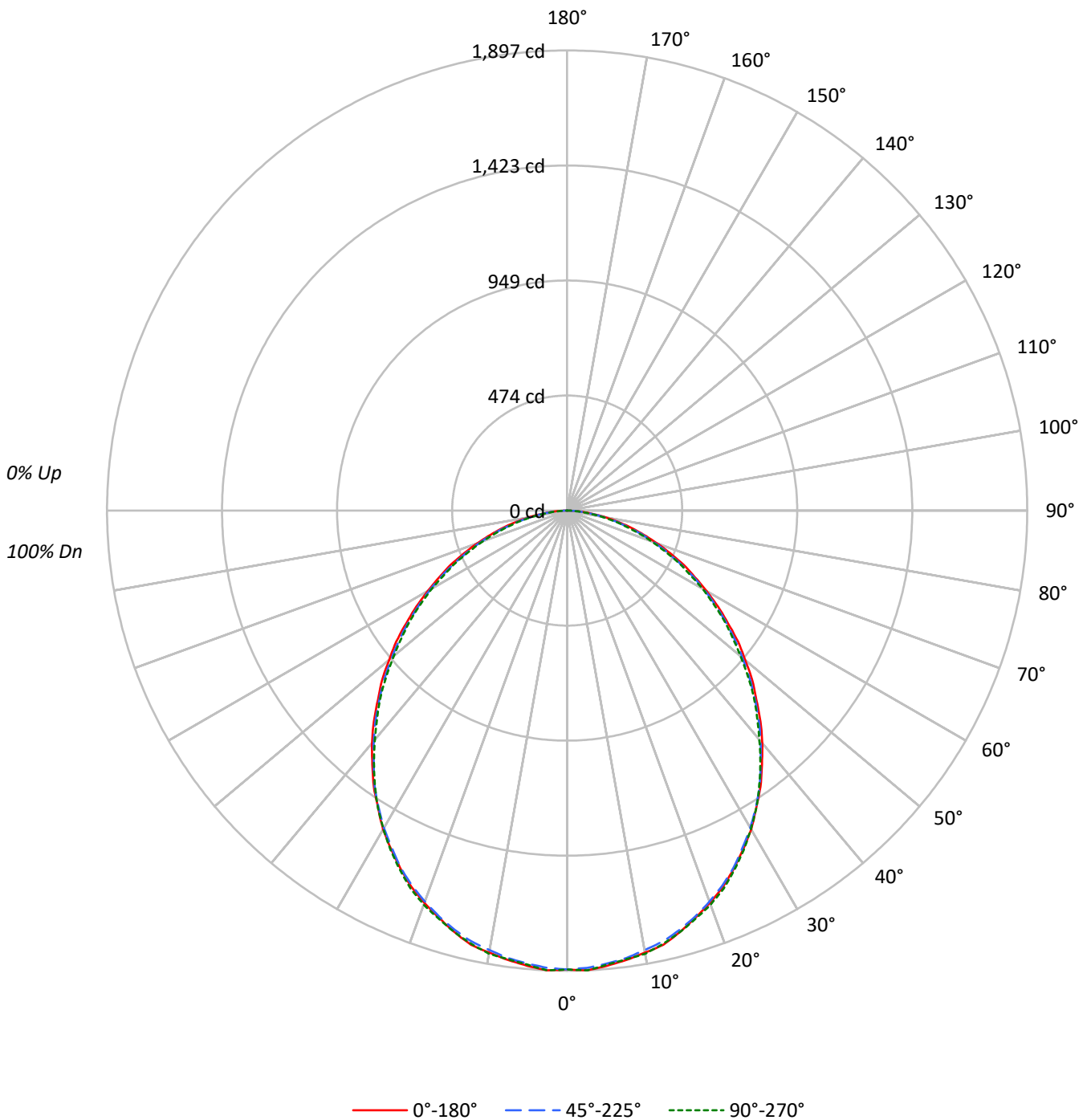
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2545	2545	2545
5°	2544	2532	2538
10°	2528	2513	2534
15°	2506	2493	2506
20°	2465	2456	2476
25°	2416	2411	2425
30°	2358	2346	2353
35°	2284	2274	2269
40°	2199	2178	2165
45°	2100	2080	2071
50°	2005	1973	1951
55°	1898	1869	1852
60°	1785	1752	1732
65°	1686	1624	1609
70°	1546	1487	1457
75°	1420	1333	1278
80°	1247	1165	1094
85°	1008	937	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.8
10°-20°	505.9	10.8
20°-30°	748.3	15.9
30°-40°	863.6	18.4
40°-50°	843.5	17.9
50°-60°	712.3	15.1
60°-70°	507.3	10.8
70°-80°	274.7	5.8
80°-90°	70.9	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°	1432.7	30.4
0°-40°	2296.3	48.8
0°-60°	3852.1	81.9
0°-90°	4705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1884	1884	1875	1879	1879	179
15°	1799	1791	1790	1797	1799	507
25°	1627	1618	1624	1630	1633	749
35°	1390	1380	1384	1380	1381	868
45°	1104	1094	1093	1088	1088	853
55°	809	798	797	789	789	725
65°	530	519	510	504	506	522
75°	273	264	256	250	246	289
85°	65	64	61	53	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.3	1891.3	1891.3	1891.3	1891.3
2.5°	1897.3	1889.8	1886.7	1888.2	1897.3
5°	1883.7	1883.7	1874.6	1879.1	1879.1
7.5°	1868.5	1870.0	1860.9	1868.5	1865.5
10°	1850.3	1845.7	1839.7	1851.8	1854.8
12.5°	1833.6	1823.0	1819.9	1827.5	1829.0
15°	1798.7	1791.1	1789.6	1797.2	1798.7
17.5°	1759.2	1760.7	1754.7	1765.3	1763.8
20°	1721.3	1718.2	1715.2	1727.3	1728.9
22.5°	1678.8	1669.7	1672.7	1683.3	1686.4
25°	1627.2	1618.1	1624.1	1630.2	1633.2
27.5°	1572.5	1568.0	1566.5	1574.0	1577.1
30°	1517.9	1510.3	1510.3	1519.4	1514.8
32.5°	1451.1	1445.0	1448.1	1451.1	1452.6
35°	1390.4	1379.8	1384.3	1379.8	1381.3
37.5°	1319.0	1311.4	1309.9	1308.4	1308.4
40°	1252.2	1246.2	1240.1	1240.1	1232.5
42.5°	1179.4	1171.8	1168.8	1164.2	1159.7
45°	1103.5	1094.4	1092.9	1088.3	1088.3
47.5°	1035.2	1021.5	1020.0	1010.9	1010.9
50°	957.8	948.7	942.6	936.5	932.0
52.5°	888.0	878.9	869.7	863.7	859.1
55°	809.0	798.4	796.9	789.3	789.3
57.5°	737.7	728.6	722.5	713.4	714.9
60°	663.3	654.2	651.2	643.6	643.6
62.5°	593.5	585.9	581.3	573.8	567.7
65°	529.7	519.1	510.0	503.9	505.5
67.5°	459.9	447.8	443.2	437.1	432.6
70°	393.1	385.5	378.0	370.4	370.4
72.5°	330.9	323.3	318.8	309.6	306.6
75°	273.2	264.1	256.5	250.4	245.9
77.5°	215.5	206.4	201.9	194.3	194.3
80°	160.9	154.8	150.3	147.2	141.2
82.5°	110.8	107.8	103.2	98.7	94.1
85°	65.3	63.8	60.7	53.1	51.6
87.5°	25.8	25.8	22.8	21.3	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)