

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: P295899

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295899
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4580.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

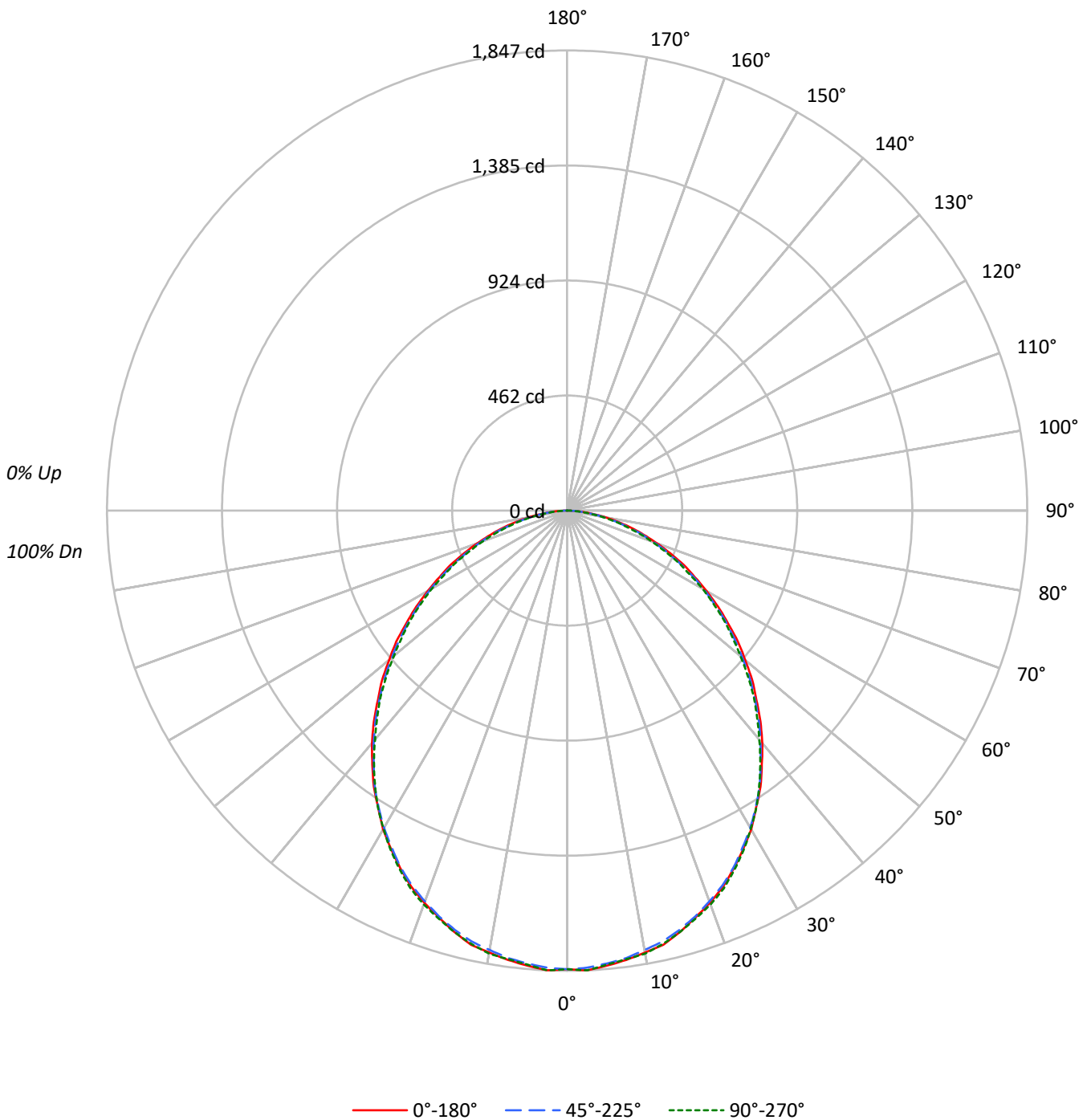
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2477	2477	2477
5°	2477	2465	2471
10°	2461	2447	2467
15°	2439	2427	2439
20°	2399	2391	2410
25°	2351	2347	2360
30°	2296	2284	2291
35°	2223	2213	2209
40°	2141	2120	2107
45°	2044	2024	2016
50°	1951	1921	1899
55°	1847	1820	1802
60°	1738	1706	1686
65°	1642	1581	1566
70°	1506	1447	1418
75°	1383	1298	1245
80°	1213	1134	1065
85°	980	912	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	3.8
10°-20°	492.4	10.8
20°-30°	728.4	15.9
30°-40°	840.7	18.4
40°-50°	821.1	17.9
50°-60°	693.3	15.1
60°-70°	493.9	10.8
70°-80°	267.4	5.8
80°-90°	69.0	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°	1394.6	30.4
0°-40°	2235.3	48.8
0°-60°	3749.7	81.9
0°-90°	4580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1834	1834	1825	1829	1829	174
15°	1751	1744	1742	1749	1751	493
25°	1584	1575	1581	1587	1590	729
35°	1353	1343	1348	1343	1345	845
45°	1074	1065	1064	1059	1059	831
55°	788	777	776	768	768	706
65°	516	505	496	490	492	508
75°	266	257	250	244	239	281
85°	64	62	59	52	50	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.0	1841.0	1841.0	1841.0	1841.0
2.5°	1846.9	1839.6	1836.6	1838.1	1846.9
5°	1833.6	1833.6	1824.8	1829.2	1829.2
7.5°	1818.9	1820.3	1811.5	1818.9	1815.9
10°	1801.1	1796.7	1790.8	1802.6	1805.6
12.5°	1784.9	1774.5	1771.6	1779.0	1780.5
15°	1750.9	1743.5	1742.0	1749.4	1750.9
17.5°	1712.5	1714.0	1708.0	1718.4	1716.9
20°	1675.5	1672.6	1669.6	1681.5	1682.9
22.5°	1634.2	1625.3	1628.3	1638.6	1641.6
25°	1583.9	1575.1	1581.0	1586.9	1589.8
27.5°	1530.7	1526.3	1524.8	1532.2	1535.2
30°	1477.6	1470.2	1470.2	1479.0	1474.6
32.5°	1412.5	1406.6	1409.6	1412.5	1414.0
35°	1353.4	1343.1	1347.5	1343.1	1344.6
37.5°	1284.0	1276.6	1275.1	1273.6	1273.6
40°	1219.0	1213.1	1207.2	1207.2	1199.8
42.5°	1148.1	1140.7	1137.7	1133.3	1128.8
45°	1074.2	1065.3	1063.8	1059.4	1059.4
47.5°	1007.7	994.4	992.9	984.0	984.0
50°	932.3	923.5	917.6	911.6	907.2
52.5°	864.4	855.5	846.6	840.7	836.3
55°	787.5	777.2	775.7	768.3	768.3
57.5°	718.1	709.2	703.3	694.4	695.9
60°	645.7	636.8	633.9	626.5	626.5
62.5°	577.7	570.3	565.9	558.5	552.6
65°	515.7	505.3	496.5	490.5	492.0
67.5°	447.7	435.9	431.4	425.5	421.1
70°	382.7	375.3	367.9	360.5	360.5
72.5°	322.1	314.7	310.3	301.4	298.5
75°	266.0	257.1	249.7	243.8	239.4
77.5°	209.8	200.9	196.5	189.1	189.1
80°	156.6	150.7	146.3	143.3	137.4
82.5°	107.9	104.9	100.5	96.0	91.6
85°	63.5	62.1	59.1	51.7	50.2
87.5°	25.1	25.1	22.2	20.7	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)