

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: P296050

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296050
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-LD5-55-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4748.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

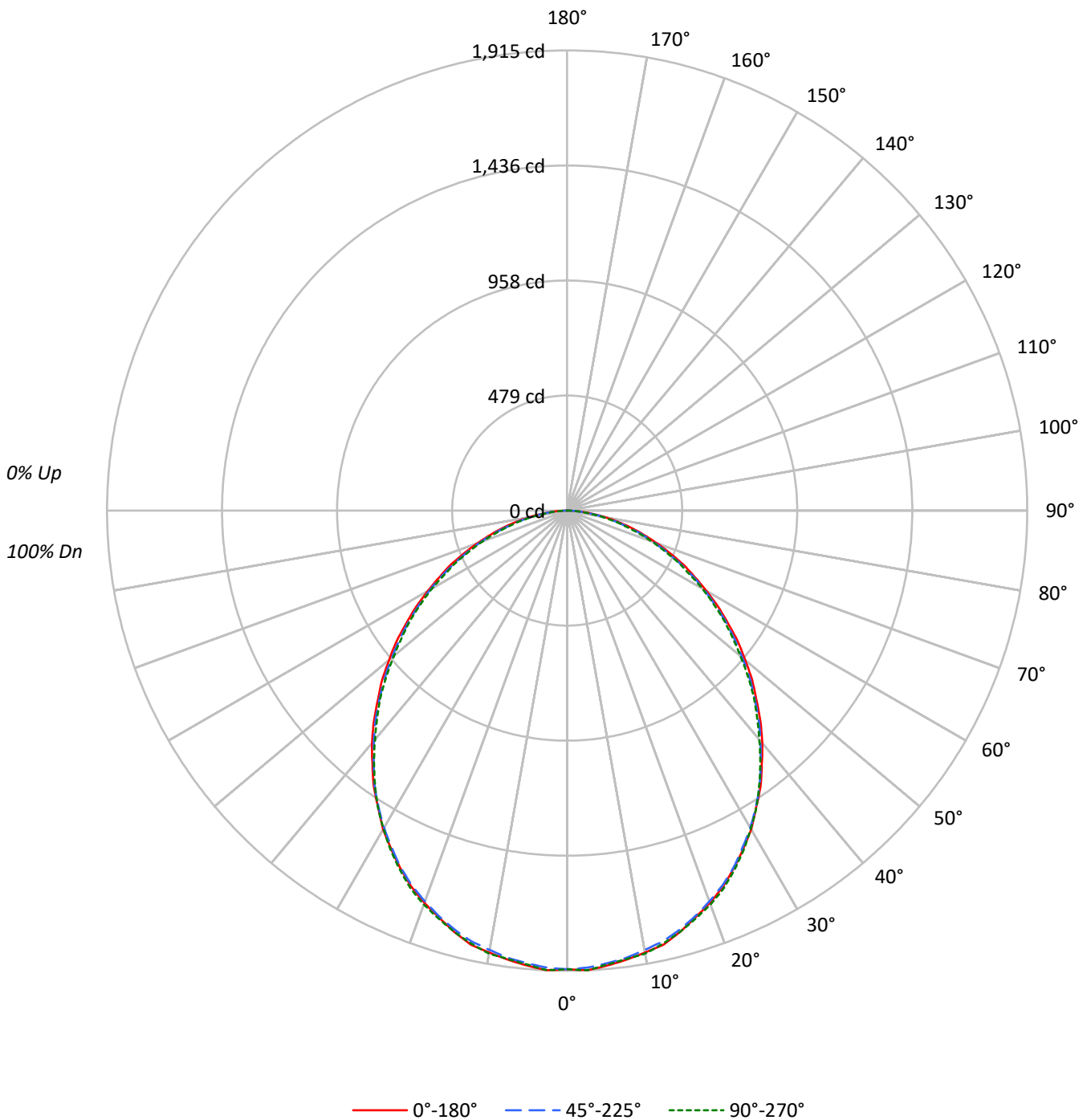
Input Watts (W): 38.409
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2568	2568	2568
5°	2567	2555	2561
10°	2551	2536	2557
15°	2528	2516	2528
20°	2487	2478	2498
25°	2438	2433	2447
30°	2380	2368	2375
35°	2305	2295	2290
40°	2220	2198	2185
45°	2119	2099	2090
50°	2023	1991	1969
55°	1915	1886	1868
60°	1801	1768	1748
65°	1702	1639	1624
70°	1561	1500	1470
75°	1433	1346	1290
80°	1258	1175	1104
85°	1017	946	804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.8
10°-20°	510.5	10.8
20°-30°	755.2	15.9
30°-40°	871.5	18.4
40°-50°	851.2	17.9
50°-60°	718.8	15.1
60°-70°	512.0	10.8
70°-80°	277.2	5.8
80°-90°	71.5	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°	1445.7	30.4
0°-40°	2317.3	48.8
0°-60°	3887.3	81.9
0°-90°	4748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1901	1901	1892	1896	1896	180
15°	1815	1808	1806	1814	1815	511
25°	1642	1633	1639	1645	1648	756
35°	1403	1392	1397	1392	1394	876
45°	1114	1104	1103	1098	1098	861
55°	816	806	804	796	796	732
65°	535	524	515	508	510	527
75°	276	266	259	253	248	292
85°	66	64	61	54	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.6	1908.6	1908.6	1908.6	1908.6
2.5°	1914.7	1907.0	1904.0	1905.5	1914.7
5°	1900.9	1900.9	1891.7	1896.3	1896.3
7.5°	1885.6	1887.1	1877.9	1885.6	1882.5
10°	1867.2	1862.6	1856.5	1868.7	1871.8
12.5°	1850.4	1839.6	1836.6	1844.2	1845.8
15°	1815.1	1807.5	1805.9	1813.6	1815.1
17.5°	1775.3	1776.8	1770.7	1781.4	1779.9
20°	1737.0	1733.9	1730.9	1743.1	1744.7
22.5°	1694.1	1684.9	1688.0	1698.7	1701.8
25°	1642.0	1632.8	1639.0	1645.1	1648.2
27.5°	1586.9	1582.3	1580.8	1588.4	1591.5
30°	1531.8	1524.1	1524.1	1533.3	1528.7
32.5°	1464.4	1458.2	1461.3	1464.4	1465.9
35°	1403.1	1392.4	1397.0	1392.4	1393.9
37.5°	1331.1	1323.4	1321.9	1320.4	1320.4
40°	1263.7	1257.6	1251.4	1251.4	1243.8
42.5°	1190.2	1182.5	1179.4	1174.9	1170.3
45°	1113.6	1104.4	1102.9	1098.3	1098.3
47.5°	1044.7	1030.9	1029.3	1020.1	1020.1
50°	966.5	957.3	951.2	945.1	940.5
52.5°	896.1	886.9	877.7	871.6	867.0
55°	816.4	805.7	804.2	796.5	796.5
57.5°	744.4	735.2	729.1	719.9	721.5
60°	669.4	660.2	657.1	649.5	649.5
62.5°	598.9	591.3	586.7	579.0	572.9
65°	534.6	523.9	514.7	508.5	510.1
67.5°	464.1	451.9	447.3	441.1	436.5
70°	396.7	389.1	381.4	373.7	373.7
72.5°	333.9	326.3	321.7	312.5	309.4
75°	275.7	266.5	258.9	252.7	248.1
77.5°	217.5	208.3	203.7	196.1	196.1
80°	162.4	156.2	151.6	148.6	142.5
82.5°	111.8	108.8	104.2	99.6	95.0
85°	65.9	64.3	61.3	53.6	52.1
87.5°	26.0	26.0	23.0	21.4	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)