

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: P296035

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296035
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-LD5-45-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

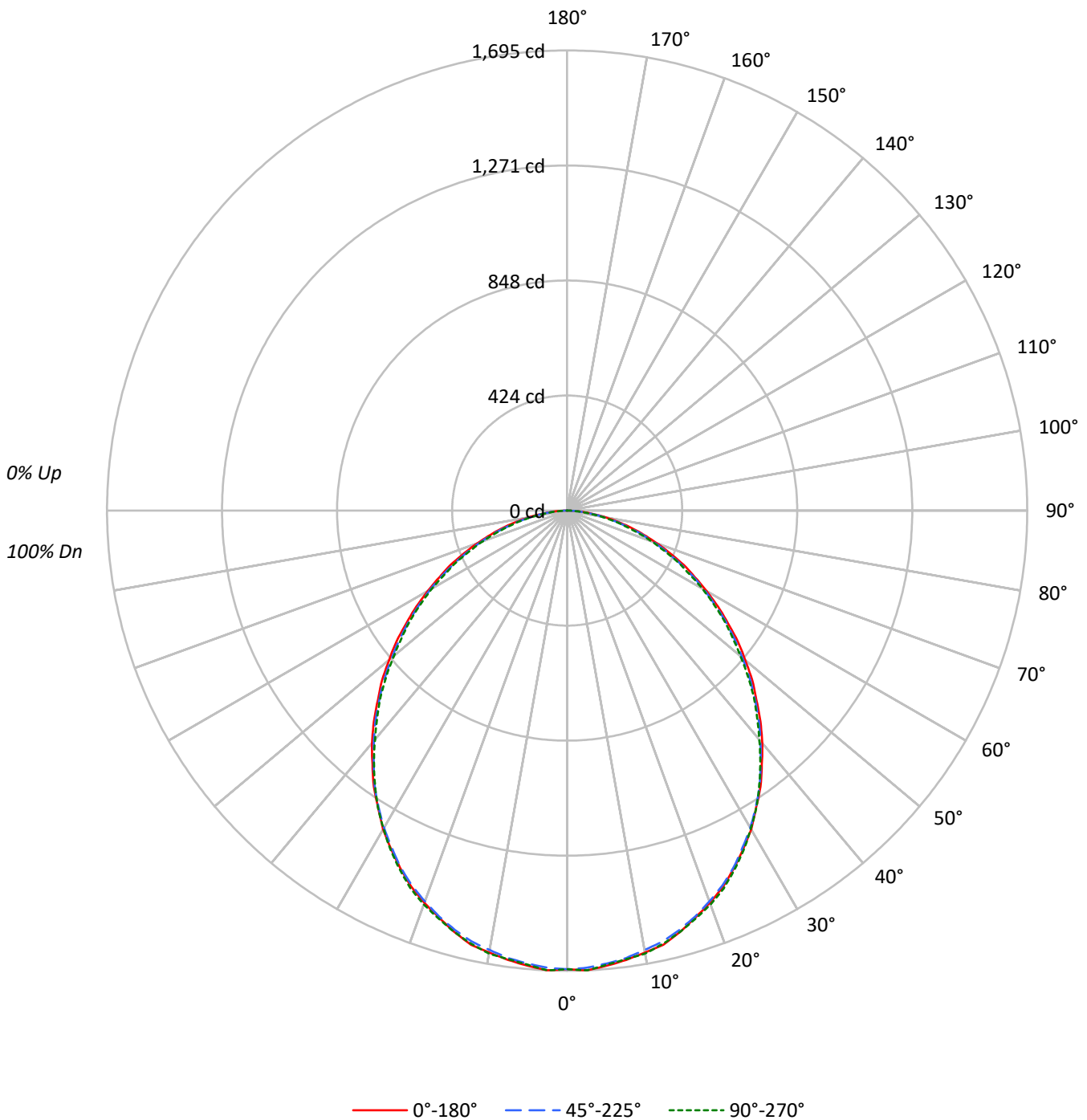
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2273	2273	2273
5°	2273	2262	2267
10°	2258	2245	2264
15°	2238	2227	2238
20°	2202	2194	2211
25°	2158	2154	2166
30°	2107	2096	2102
35°	2040	2031	2027
40°	1965	1946	1934
45°	1876	1858	1850
50°	1791	1762	1743
55°	1695	1670	1654
60°	1594	1565	1547
65°	1507	1450	1437
70°	1382	1328	1301
75°	1269	1192	1142
80°	1113	1040	977
85°	900	837	712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	3.8
10°-20°	451.9	10.8
20°-30°	668.5	15.9
30°-40°	771.5	18.4
40°-50°	753.5	17.9
50°-60°	636.3	15.1
60°-70°	453.2	10.8
70°-80°	245.4	5.8
80°-90°	63.3	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°	1279.8	30.4
0°-40°	2051.3	48.8
0°-60°	3441.1	81.9
0°-90°	4203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1683	1683	1675	1679	1679	160
15°	1607	1600	1599	1605	1607	453
25°	1454	1445	1451	1456	1459	669
35°	1242	1232	1237	1232	1234	775
45°	986	978	976	972	972	762
55°	723	713	712	705	705	648
65°	473	464	456	450	452	467
75°	244	236	229	224	220	258
85°	58	57	54	48	46	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1694.9	1688.1	1685.4	1686.8	1694.9
5°	1682.7	1682.7	1674.6	1678.6	1678.6
7.5°	1669.1	1670.5	1662.4	1669.1	1666.4
10°	1652.9	1648.8	1643.4	1654.2	1656.9
12.5°	1638.0	1628.5	1625.8	1632.5	1633.9
15°	1606.8	1600.0	1598.6	1605.4	1606.8
17.5°	1571.5	1572.9	1567.5	1576.9	1575.6
20°	1537.6	1534.9	1532.2	1543.0	1544.4
22.5°	1499.7	1491.5	1494.2	1503.7	1506.4
25°	1453.6	1445.4	1450.8	1456.3	1459.0
27.5°	1404.7	1400.7	1399.3	1406.1	1408.8
30°	1355.9	1349.1	1349.1	1357.3	1353.2
32.5°	1296.3	1290.8	1293.6	1296.3	1297.6
35°	1242.0	1232.5	1236.6	1232.5	1233.9
37.5°	1178.3	1171.5	1170.2	1168.8	1168.8
40°	1118.6	1113.2	1107.8	1107.8	1101.0
42.5°	1053.6	1046.8	1044.1	1040.0	1035.9
45°	985.8	977.6	976.3	972.2	972.2
47.5°	924.7	912.5	911.2	903.0	903.0
50°	855.6	847.5	842.0	836.6	832.5
52.5°	793.2	785.1	776.9	771.5	767.5
55°	722.7	713.2	711.9	705.1	705.1
57.5°	659.0	650.8	645.4	637.3	638.6
60°	592.5	584.4	581.7	574.9	574.9
62.5°	530.2	523.4	519.3	512.5	507.1
65°	473.2	463.7	455.6	450.2	451.5
67.5°	410.8	400.0	395.9	390.5	386.4
70°	351.2	344.4	337.6	330.8	330.8
72.5°	295.6	288.8	284.7	276.6	273.9
75°	244.1	235.9	229.2	223.7	219.7
77.5°	192.5	184.4	180.3	173.6	173.6
80°	143.7	138.3	134.2	131.5	126.1
82.5°	99.0	96.3	92.2	88.1	84.1
85°	58.3	56.9	54.2	47.5	46.1
87.5°	23.1	23.1	20.3	19.0	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)