

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: P295885

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295885
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-LD5-42-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: 4281.0 lumens
Efficiency: N/A
Efficacy: 144.3 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

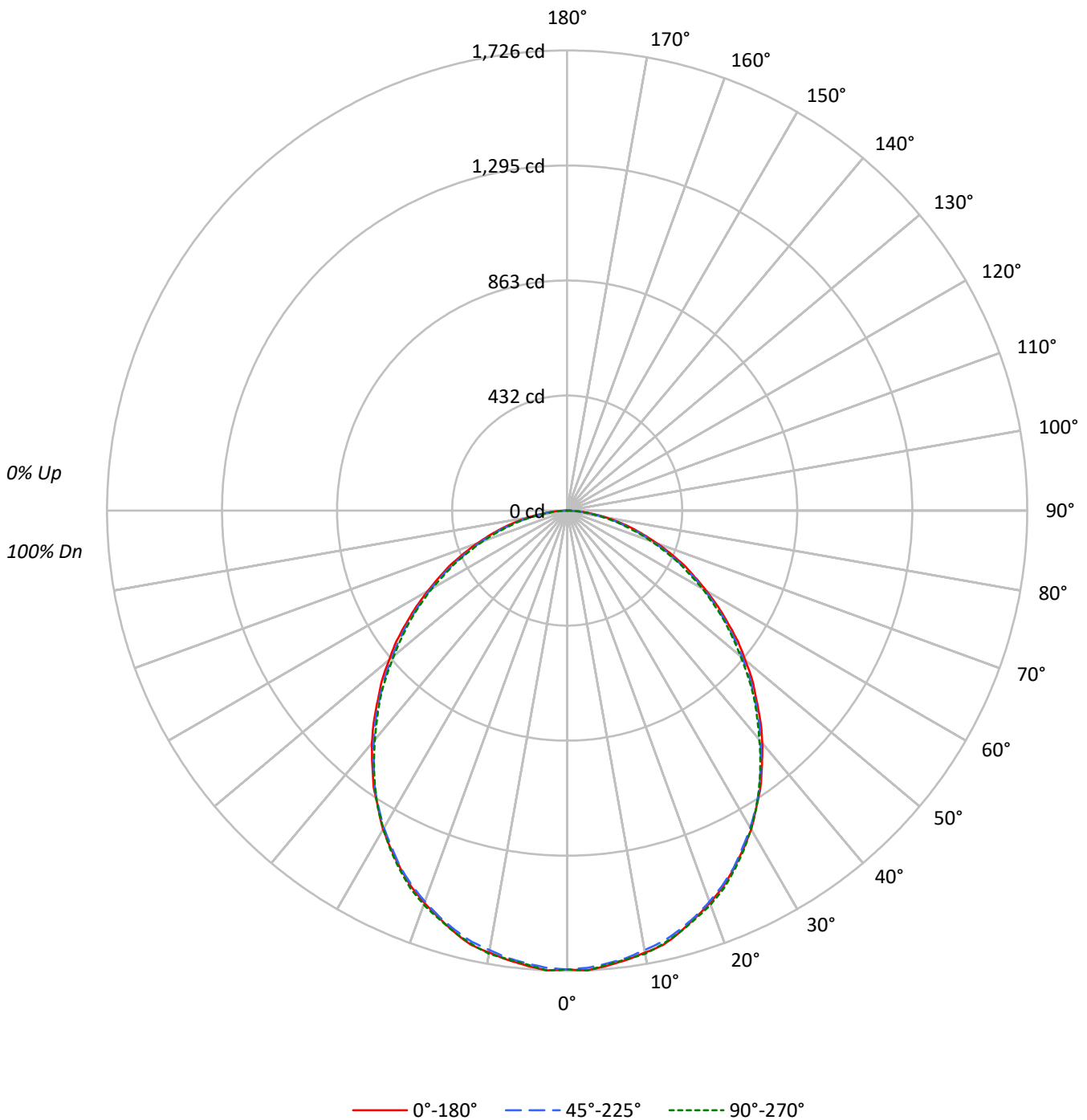
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2315	2315	2315
5°	2315	2304	2309
10°	2300	2287	2306
15°	2280	2268	2280
20°	2243	2235	2252
25°	2198	2194	2206
30°	2146	2135	2141
35°	2078	2069	2064
40°	2001	1982	1970
45°	1911	1892	1884
50°	1824	1795	1775
55°	1727	1701	1685
60°	1624	1594	1576
65°	1535	1477	1464
70°	1407	1353	1326
75°	1292	1213	1163
80°	1134	1059	995
85°	917	852	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	3.8
10°-20°	460.3	10.8
20°-30°	680.9	15.9
30°-40°	785.8	18.4
40°-50°	767.5	17.9
50°-60°	648.1	15.1
60°-70°	461.6	10.8
70°-80°	249.9	5.8
80°-90°	64.5	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°	1303.6	30.4
0°-40°	2089.4	48.8
0°-60°	3505.0	81.9
0°-90°	4281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1714	1714	1706	1710	1710	163
15°	1637	1630	1628	1635	1637	461
25°	1480	1472	1478	1483	1486	682
35°	1265	1255	1260	1255	1257	789
45°	1004	996	994	990	990	776
55°	736	726	725	718	718	660
65°	482	472	464	458	460	475
75°	249	240	233	228	224	263
85°	59	58	55	48	47	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.8	1720.8	1720.8	1720.8	1720.8
2.5°	1726.4	1719.5	1716.7	1718.1	1726.4
5°	1713.9	1713.9	1705.6	1709.8	1709.8
7.5°	1700.1	1701.5	1693.2	1700.1	1697.4
10°	1683.6	1679.4	1673.9	1684.9	1687.7
12.5°	1668.4	1658.7	1655.9	1662.8	1664.2
15°	1636.6	1629.7	1628.3	1635.2	1636.6
17.5°	1600.7	1602.1	1596.5	1606.2	1604.8
20°	1566.2	1563.4	1560.6	1571.7	1573.1
22.5°	1527.5	1519.2	1522.0	1531.6	1534.4
25°	1480.5	1472.2	1477.8	1483.3	1486.1
27.5°	1430.8	1426.7	1425.3	1432.2	1435.0
30°	1381.1	1374.2	1374.2	1382.5	1378.3
32.5°	1320.3	1314.8	1317.6	1320.3	1321.7
35°	1265.1	1255.4	1259.6	1255.4	1256.8
37.5°	1200.2	1193.3	1191.9	1190.5	1190.5
40°	1139.4	1133.9	1128.4	1128.4	1121.4
42.5°	1073.1	1066.2	1063.4	1059.3	1055.2
45°	1004.1	995.8	994.4	990.2	990.2
47.5°	941.9	929.5	928.1	919.8	919.8
50°	871.5	863.2	857.7	852.1	848.0
52.5°	807.9	799.7	791.4	785.8	781.7
55°	736.1	726.5	725.1	718.2	718.2
57.5°	671.2	662.9	657.4	649.1	650.5
60°	603.5	595.3	592.5	585.6	585.6
62.5°	540.0	533.1	529.0	522.1	516.5
65°	482.0	472.3	464.0	458.5	459.9
67.5°	418.5	407.4	403.3	397.8	393.6
70°	357.7	350.8	343.9	337.0	337.0
72.5°	301.1	294.2	290.0	281.7	279.0
75°	248.6	240.3	233.4	227.9	223.7
77.5°	196.1	187.8	183.7	176.8	176.8
80°	146.4	140.9	136.7	134.0	128.4
82.5°	100.8	98.1	93.9	89.8	85.6
85°	59.4	58.0	55.2	48.3	47.0
87.5°	23.5	23.5	20.7	19.3	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)