

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: P296342

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4617.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

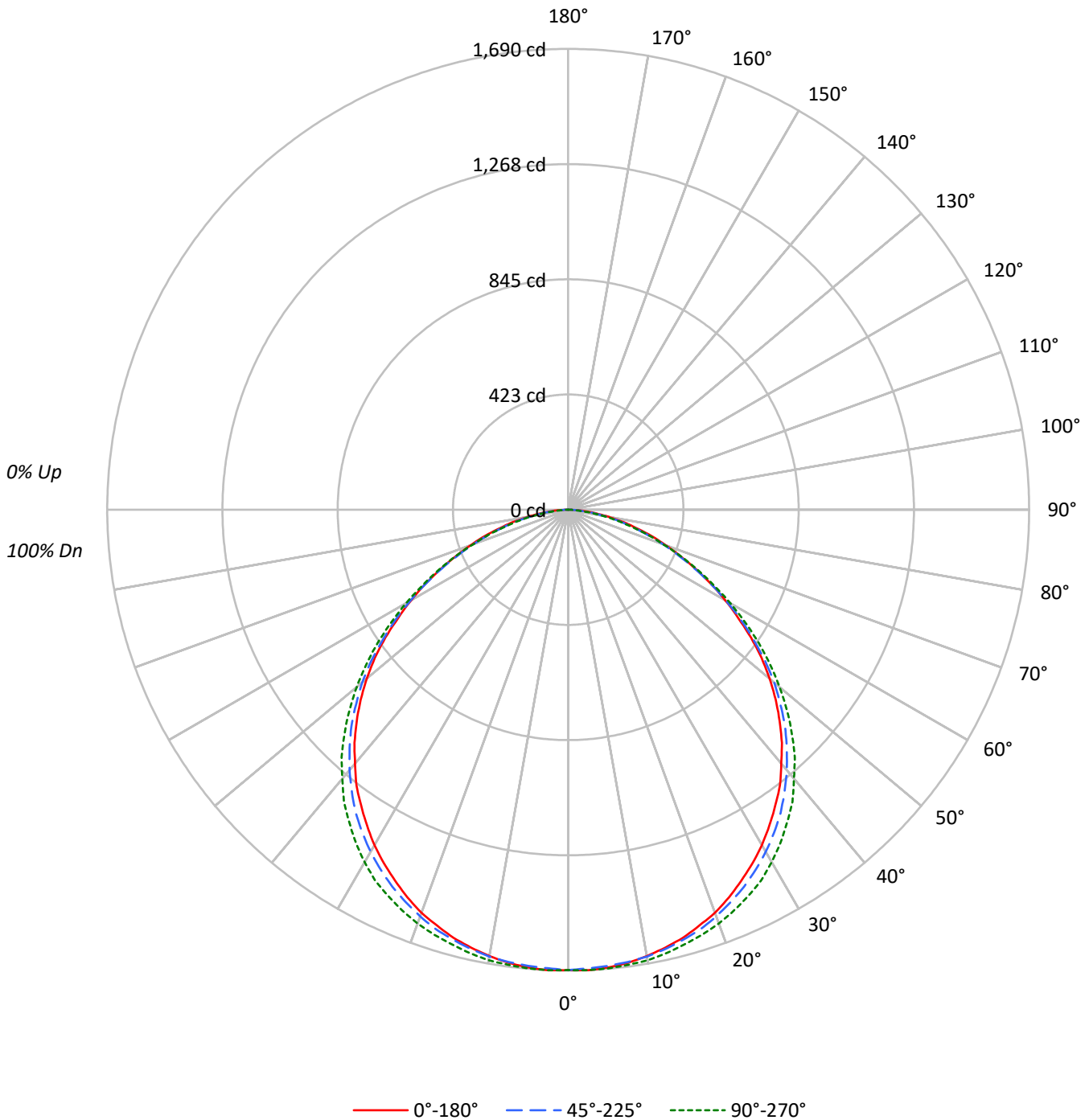
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2272	2272	2272
5°	2276	2269	2281
10°	2271	2273	2292
15°	2264	2274	2298
20°	2252	2272	2312
25°	2228	2265	2319
30°	2207	2250	2318
35°	2175	2230	2299
40°	2135	2190	2261
45°	2086	2140	2206
50°	2016	2064	2119
55°	1919	1943	2001
60°	1791	1801	1848
65°	1645	1634	1673
70°	1495	1454	1461
75°	1329	1256	1248
80°	1154	1031	1004
85°	946	730	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.5
10°-20°	461.6	10.0
20°-30°	704.6	15.3
30°-40°	849.5	18.4
40°-50°	866.3	18.8
50°-60°	741.4	16.1
60°-70°	510.7	11.1
70°-80°	261.8	5.7
80°-90°	60.9	1.3
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°	1326.4	28.7
0°-40°	2175.9	47.1
0°-60°	3783.6	81.9
0°-90°	4617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1685	1681	1680	1685	1688	160
15°	1625	1624	1632	1645	1650	458
25°	1501	1506	1526	1552	1562	692
35°	1324	1329	1357	1387	1400	828
45°	1096	1098	1124	1152	1160	845
55°	818	813	828	846	853	730
65°	517	504	513	517	526	513
75°	256	245	242	242	240	276
85°	61	54	47	42	37	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1690.2	1686.7	1683.2	1686.7	1690.2
5°	1685.0	1681.4	1679.7	1685.0	1688.5
7.5°	1676.2	1672.7	1672.7	1679.7	1683.2
10°	1662.2	1660.4	1663.9	1670.9	1677.9
12.5°	1644.7	1644.7	1649.9	1658.7	1665.7
15°	1625.4	1623.6	1632.4	1644.7	1649.9
17.5°	1599.1	1600.9	1613.1	1627.2	1634.2
20°	1572.9	1574.6	1586.9	1606.1	1614.9
22.5°	1539.6	1543.1	1557.1	1581.6	1590.4
25°	1501.0	1506.3	1525.6	1551.8	1562.3
27.5°	1462.5	1467.8	1488.8	1518.6	1532.6
30°	1420.5	1427.5	1448.5	1480.0	1492.3
32.5°	1373.2	1378.4	1404.7	1436.2	1448.5
35°	1324.1	1329.4	1357.4	1387.2	1399.5
37.5°	1275.1	1275.1	1303.1	1338.2	1350.4
40°	1215.5	1217.3	1247.1	1280.4	1287.4
42.5°	1159.5	1159.5	1185.8	1217.3	1229.6
45°	1096.4	1098.2	1124.5	1152.5	1159.5
47.5°	1031.6	1031.6	1054.4	1080.7	1087.7
50°	963.3	959.8	986.1	1007.1	1012.4
52.5°	893.3	888.0	909.0	926.5	933.6
55°	818.0	812.7	828.5	846.0	853.0
57.5°	739.1	732.1	749.6	765.4	768.9
60°	665.6	655.1	669.1	677.8	686.6
62.5°	592.0	579.7	590.3	595.5	602.5
65°	516.7	504.4	513.2	516.7	525.5
67.5°	444.9	436.1	437.9	443.1	446.6
70°	380.1	369.6	369.6	369.6	371.3
72.5°	320.5	304.8	303.0	304.8	304.8
75°	255.7	245.2	241.7	241.7	240.0
77.5°	204.9	190.9	189.2	185.7	182.2
80°	148.9	136.6	133.1	131.4	129.6
82.5°	103.3	92.8	89.3	85.8	80.6
85°	61.3	54.3	47.3	42.0	36.8
87.5°	22.8	21.0	17.5	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)