

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: P295883

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295883
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4116.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

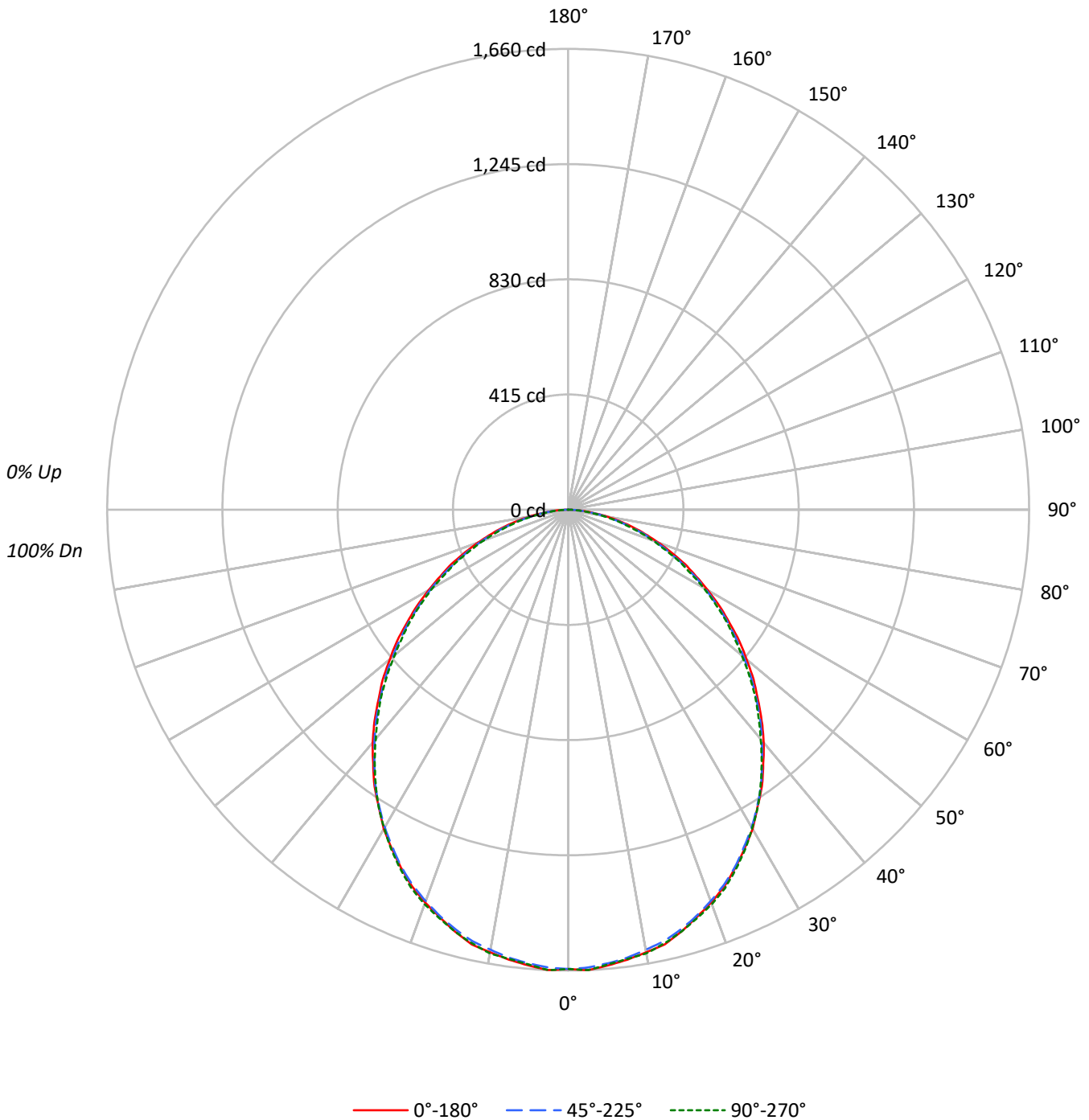
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2226	2226	2226
5°	2226	2215	2220
10°	2212	2199	2217
15°	2192	2181	2192
20°	2156	2148	2166
25°	2113	2109	2121
30°	2063	2053	2059
35°	1998	1989	1985
40°	1924	1906	1894
45°	1837	1819	1812
50°	1754	1726	1707
55°	1660	1635	1620
60°	1562	1533	1515
65°	1475	1421	1408
70°	1353	1301	1275
75°	1242	1167	1118
80°	1091	1019	957
85°	881	820	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.8
10°-20°	442.6	10.8
20°-30°	654.6	15.9
30°-40°	755.5	18.4
40°-50°	737.9	17.9
50°-60°	623.1	15.1
60°-70°	443.8	10.8
70°-80°	240.3	5.8
80°-90°	62.0	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°	1253.3	30.4
0°-40°	2008.8	48.8
0°-60°	3369.9	81.9
0°-90°	4116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1648	1648	1640	1644	1644	156
15°	1574	1567	1566	1572	1574	443
25°	1424	1416	1421	1426	1429	655
35°	1216	1207	1211	1207	1208	759
45°	965	957	956	952	952	746
55°	708	698	697	690	690	635
65°	463	454	446	441	442	457
75°	239	231	224	219	215	253
85°	57	56	53	46	45	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1659.8	1653.2	1650.5	1651.9	1659.8
5°	1647.9	1647.9	1639.9	1643.9	1643.9
7.5°	1634.6	1635.9	1628.0	1634.6	1631.9
10°	1618.7	1614.7	1609.4	1620.0	1622.6
12.5°	1604.1	1594.8	1592.1	1598.7	1600.1
15°	1573.5	1566.9	1565.5	1572.2	1573.5
17.5°	1539.0	1540.3	1535.0	1544.3	1543.0
20°	1505.8	1503.1	1500.5	1511.1	1512.4
22.5°	1468.6	1460.6	1463.3	1472.6	1475.3
25°	1423.5	1415.5	1420.8	1426.1	1428.8
27.5°	1375.7	1371.7	1370.4	1377.0	1379.6
30°	1327.9	1321.2	1321.2	1329.2	1325.2
32.5°	1269.4	1264.1	1266.8	1269.4	1270.8
35°	1216.3	1207.0	1211.0	1207.0	1208.4
37.5°	1153.9	1147.3	1145.9	1144.6	1144.6
40°	1095.5	1090.2	1084.9	1084.9	1078.2
42.5°	1031.7	1025.1	1022.5	1018.5	1014.5
45°	965.4	957.4	956.1	952.1	952.1
47.5°	905.6	893.7	892.3	884.4	884.4
50°	837.9	829.9	824.6	819.3	815.3
52.5°	776.8	768.8	760.9	755.6	751.6
55°	707.7	698.5	697.1	690.5	690.5
57.5°	645.3	637.4	632.1	624.1	625.4
60°	580.3	572.3	569.7	563.0	563.0
62.5°	519.2	512.6	508.6	501.9	496.6
65°	463.4	454.1	446.2	440.8	442.2
67.5°	402.3	391.7	387.7	382.4	378.4
70°	343.9	337.3	330.6	324.0	324.0
72.5°	289.5	282.8	278.9	270.9	268.2
75°	239.0	231.0	224.4	219.1	215.1
77.5°	188.6	180.6	176.6	170.0	170.0
80°	140.8	135.4	131.5	128.8	123.5
82.5°	96.9	94.3	90.3	86.3	82.3
85°	57.1	55.8	53.1	46.5	45.1
87.5°	22.6	22.6	19.9	18.6	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)