

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: P295890

Luminaire Tested: **24RLN-LD5-45-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295890
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-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4172.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

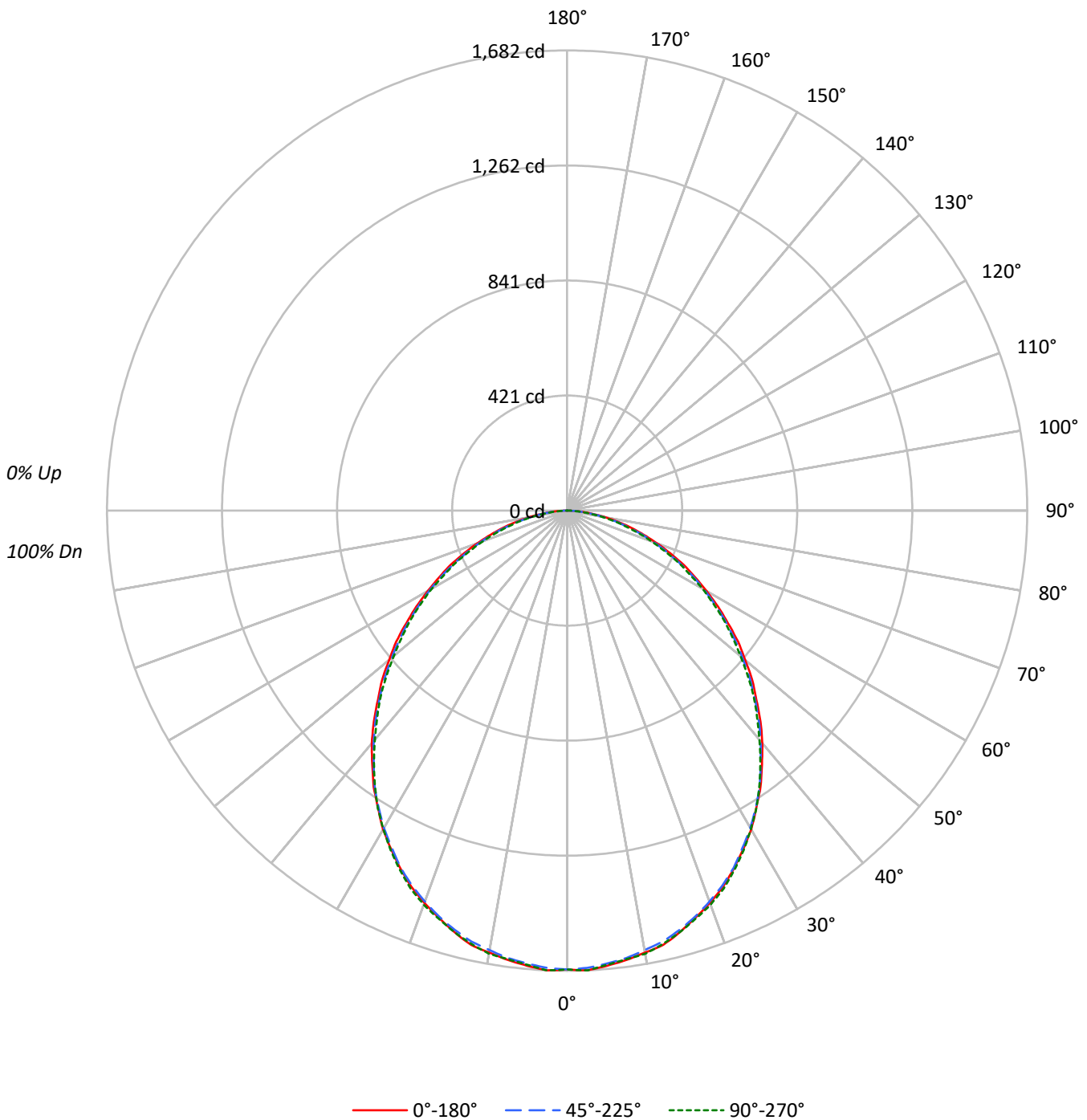
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2256	2256	2256
5°	2256	2245	2251
10°	2242	2229	2247
15°	2222	2210	2222
20°	2185	2178	2195
25°	2142	2138	2150
30°	2091	2081	2087
35°	2025	2016	2012
40°	1950	1931	1920
45°	1862	1844	1836
50°	1778	1750	1730
55°	1683	1658	1642
60°	1583	1554	1536
65°	1495	1440	1427
70°	1371	1318	1292
75°	1260	1183	1133
80°	1106	1032	970
85°	894	831	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.8
10°-20°	448.6	10.8
20°-30°	663.5	15.9
30°-40°	765.8	18.4
40°-50°	747.9	17.9
50°-60°	631.6	15.1
60°-70°	449.9	10.8
70°-80°	243.6	5.8
80°-90°	62.8	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°	1270.4	30.4
0°-40°	2036.1	48.8
0°-60°	3415.7	81.9
0°-90°	4172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1670	1670	1662	1666	1666	159
15°	1595	1588	1587	1594	1595	449
25°	1443	1435	1440	1446	1448	664
35°	1233	1223	1228	1223	1225	769
45°	978	970	969	965	965	757
55°	717	708	707	700	700	643
65°	470	460	452	447	448	463
75°	242	234	228	222	218	256
85°	58	56	54	47	46	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1682.4	1675.7	1673.0	1674.3	1682.4
5°	1670.3	1670.3	1662.2	1666.3	1666.3
7.5°	1656.8	1658.2	1650.1	1656.8	1654.1
10°	1640.7	1636.6	1631.3	1642.0	1644.7
12.5°	1625.9	1616.5	1613.8	1620.5	1621.8
15°	1594.9	1588.2	1586.8	1593.6	1594.9
17.5°	1559.9	1561.3	1555.9	1565.3	1564.0
20°	1526.3	1523.6	1520.9	1531.7	1533.0
22.5°	1488.6	1480.5	1483.2	1492.6	1495.3
25°	1442.8	1434.8	1440.1	1445.5	1448.2
27.5°	1394.4	1390.3	1389.0	1395.7	1398.4
30°	1345.9	1339.2	1339.2	1347.3	1343.2
32.5°	1286.7	1281.3	1284.0	1286.7	1288.1
35°	1232.9	1223.4	1227.5	1223.4	1224.8
37.5°	1169.6	1162.9	1161.5	1160.2	1160.2
40°	1110.4	1105.0	1099.6	1099.6	1092.9
42.5°	1045.8	1039.1	1036.4	1032.3	1028.3
45°	978.5	970.4	969.1	965.0	965.0
47.5°	917.9	905.8	904.5	896.4	896.4
50°	849.3	841.2	835.8	830.4	826.4
52.5°	787.4	779.3	771.2	765.8	761.8
55°	717.4	708.0	706.6	699.9	699.9
57.5°	654.1	646.0	640.7	632.6	633.9
60°	588.2	580.1	577.4	570.7	570.7
62.5°	526.3	519.5	515.5	508.8	503.4
65°	469.7	460.3	452.2	446.8	448.2
67.5°	407.8	397.0	393.0	387.6	383.6
70°	348.6	341.9	335.1	328.4	328.4
72.5°	293.4	286.7	282.6	274.6	271.9
75°	242.3	234.2	227.5	222.1	218.0
77.5°	191.1	183.0	179.0	172.3	172.3
80°	142.7	137.3	133.2	130.6	125.2
82.5°	98.3	95.6	91.5	87.5	83.4
85°	57.9	56.5	53.8	47.1	45.8
87.5°	22.9	22.9	20.2	18.8	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)