

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: P295818

Luminaire Tested: **24RLN-LD5-36-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295818
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-LD5-36-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 138.2 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

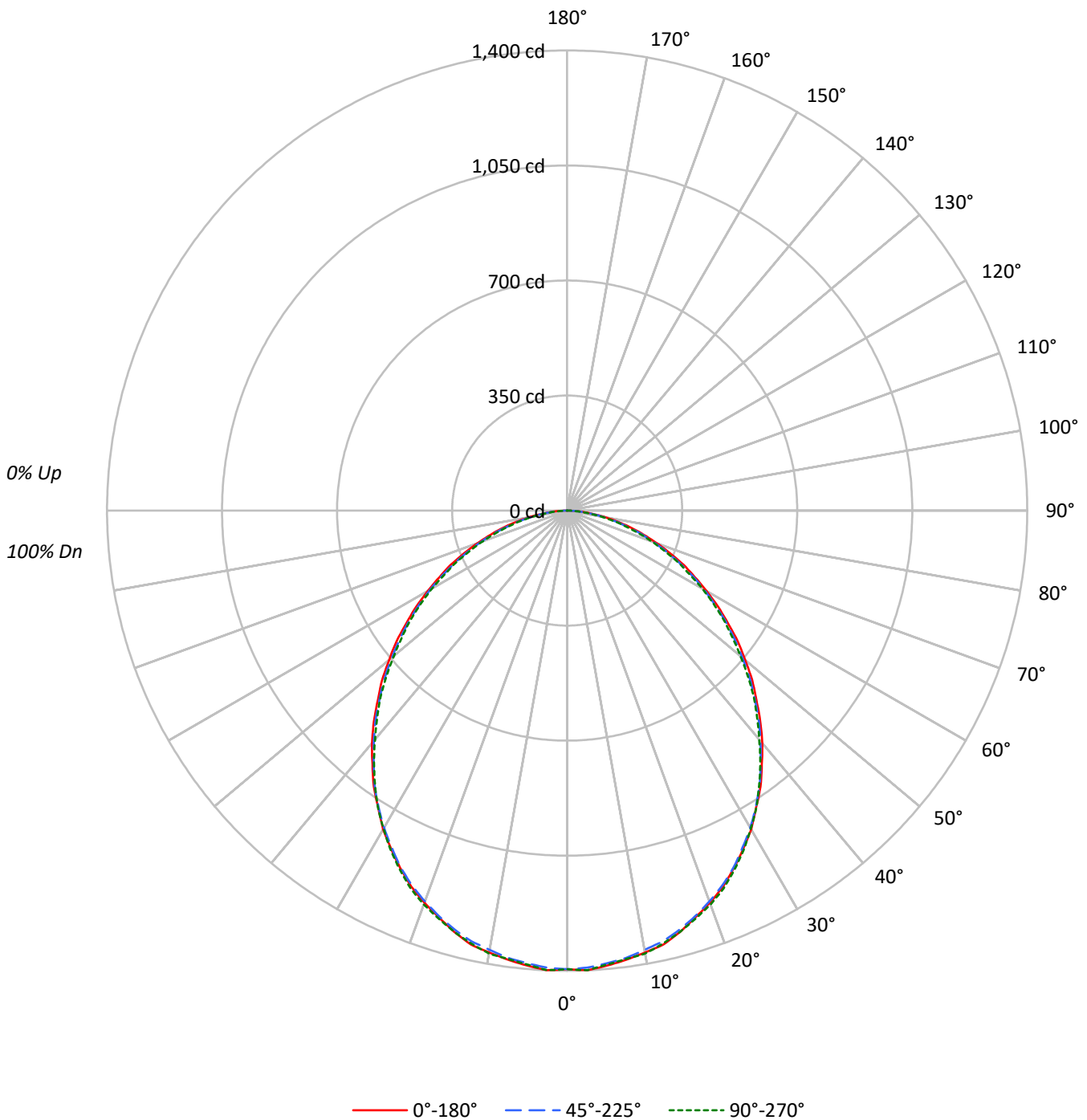
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1877	1877	1877
5°	1877	1868	1872
10°	1865	1854	1870
15°	1848	1839	1848
20°	1818	1812	1826
25°	1782	1779	1789
30°	1740	1731	1736
35°	1685	1677	1674
40°	1623	1607	1597
45°	1549	1534	1528
50°	1479	1456	1439
55°	1400	1379	1366
60°	1317	1293	1278
65°	1244	1198	1187
70°	1141	1097	1075
75°	1048	984	943
80°	920	859	807
85°	744	692	588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.8
10°-20°	373.2	10.8
20°-30°	552.0	15.9
30°-40°	637.1	18.4
40°-50°	622.3	17.9
50°-60°	525.5	15.1
60°-70°	374.3	10.8
70°-80°	202.6	5.8
80°-90°	52.3	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°	1056.9	30.4
0°-40°	1694.0	48.8
0°-60°	2841.8	81.9
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1390	1390	1383	1386	1386	132
15°	1327	1321	1320	1326	1327	374
25°	1200	1194	1198	1203	1205	553
35°	1026	1018	1021	1018	1019	640
45°	814	807	806	803	803	629
55°	597	589	588	582	582	535
65°	391	383	376	372	373	385
75°	202	195	189	185	181	213
85°	48	47	45	39	38	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1399.7	1394.1	1391.9	1393.0	1399.7
5°	1389.6	1389.6	1382.9	1386.3	1386.3
7.5°	1378.4	1379.6	1372.8	1378.4	1376.2
10°	1365.0	1361.6	1357.2	1366.1	1368.4
12.5°	1352.7	1344.9	1342.6	1348.2	1349.3
15°	1326.9	1321.3	1320.2	1325.8	1326.9
17.5°	1297.8	1298.9	1294.5	1302.3	1301.2
20°	1269.8	1267.6	1265.3	1274.3	1275.4
22.5°	1238.5	1231.8	1234.0	1241.8	1244.1
25°	1200.4	1193.7	1198.2	1202.6	1204.9
27.5°	1160.1	1156.7	1155.6	1161.2	1163.4
30°	1119.8	1114.2	1114.2	1120.9	1117.5
32.5°	1070.5	1066.0	1068.3	1070.5	1071.6
35°	1025.7	1017.9	1021.2	1017.9	1019.0
37.5°	973.1	967.5	966.4	965.2	965.2
40°	923.8	919.3	914.9	914.9	909.3
42.5°	870.1	864.5	862.2	858.9	855.5
45°	814.1	807.4	806.2	802.9	802.9
47.5°	763.7	753.6	752.5	745.8	745.8
50°	706.6	699.9	695.4	690.9	687.5
52.5°	655.1	648.4	641.6	637.2	633.8
55°	596.8	589.0	587.9	582.3	582.3
57.5°	544.2	537.5	533.0	526.3	527.4
60°	489.3	482.6	480.4	474.8	474.8
62.5°	437.8	432.2	428.9	423.3	418.8
65°	390.8	383.0	376.2	371.8	372.9
67.5°	339.3	330.3	327.0	322.5	319.1
70°	290.0	284.4	278.8	273.2	273.2
72.5°	244.1	238.5	235.2	228.4	226.2
75°	201.6	194.8	189.2	184.8	181.4
77.5°	159.0	152.3	148.9	143.3	143.3
80°	118.7	114.2	110.9	108.6	104.1
82.5°	81.7	79.5	76.1	72.8	69.4
85°	48.2	47.0	44.8	39.2	38.1
87.5°	19.0	19.0	16.8	15.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)