

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: P296318

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296318
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-LD5-45-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3578.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

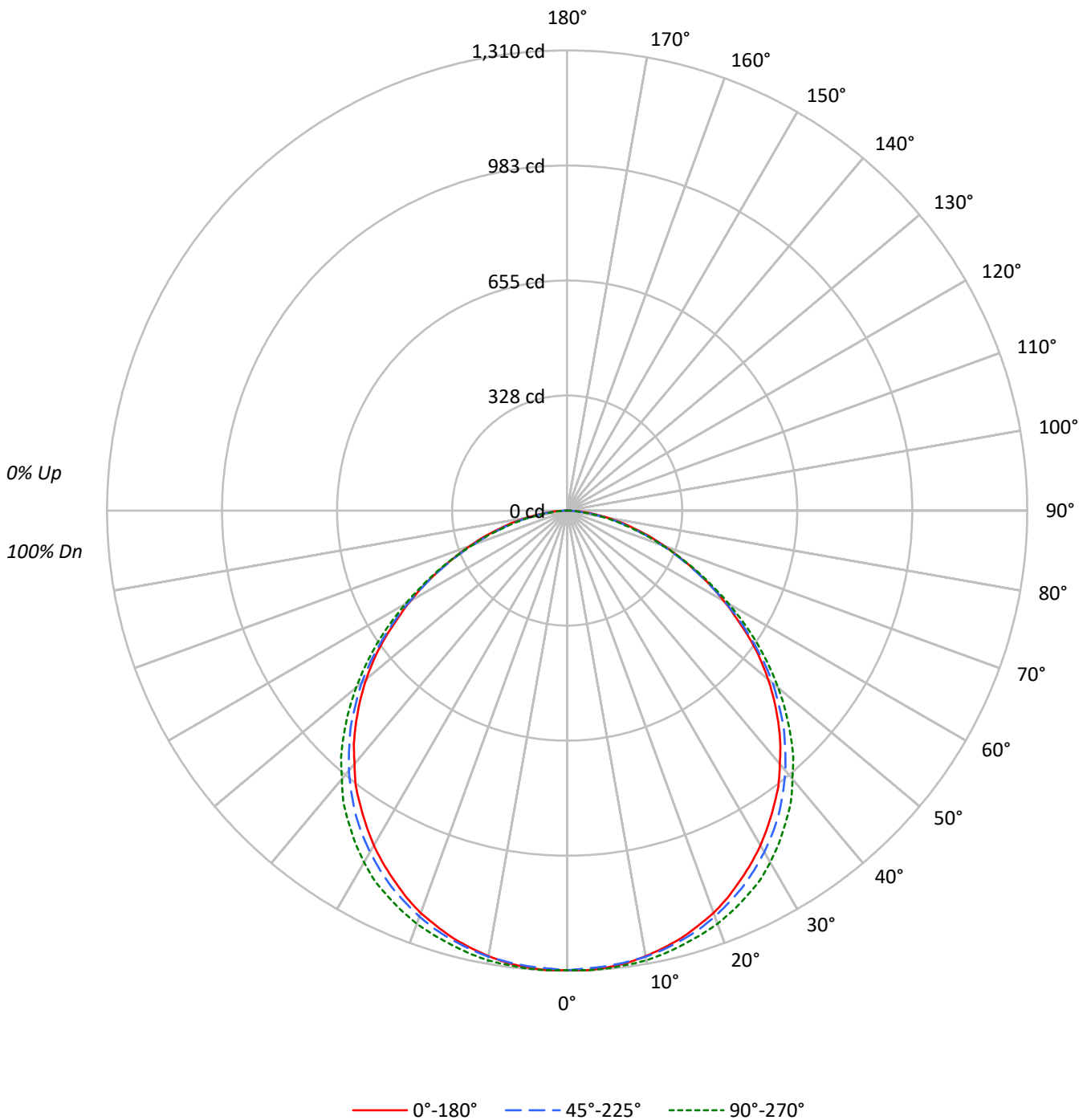
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1761	1761	1761
5°	1764	1758	1767
10°	1760	1762	1777
15°	1755	1762	1781
20°	1745	1761	1792
25°	1727	1755	1798
30°	1710	1744	1797
35°	1686	1728	1781
40°	1655	1697	1752
45°	1617	1658	1710
50°	1563	1600	1642
55°	1487	1506	1551
60°	1388	1395	1432
65°	1275	1266	1296
70°	1159	1127	1132
75°	1030	974	967
80°	894	800	778
85°	733	565	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.5
10°-20°	357.8	10.0
20°-30°	546.1	15.3
30°-40°	658.3	18.4
40°-50°	671.3	18.8
50°-60°	574.5	16.1
60°-70°	395.8	11.1
70°-80°	202.9	5.7
80°-90°	47.2	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°	1027.9	28.7
0°-40°	1686.2	47.1
0°-60°	2932.1	81.9
0°-90°	3578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1303	1302	1306	1308	124
15°	1260	1258	1265	1275	1279	355
25°	1163	1167	1182	1203	1211	536
35°	1026	1030	1052	1075	1084	642
45°	850	851	871	893	899	655
55°	634	630	642	656	661	565
65°	400	391	398	400	407	398
75°	198	190	187	187	186	214
85°	48	42	37	33	28	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.5	1308.5	1308.5	1308.5	1308.5
2.5°	1309.8	1307.1	1304.4	1307.1	1309.8
5°	1305.8	1303.1	1301.7	1305.8	1308.5
7.5°	1299.0	1296.3	1296.3	1301.7	1304.4
10°	1288.1	1286.8	1289.5	1294.9	1300.3
12.5°	1274.6	1274.6	1278.6	1285.4	1290.8
15°	1259.6	1258.3	1265.1	1274.6	1278.6
17.5°	1239.3	1240.6	1250.1	1261.0	1266.4
20°	1218.9	1220.3	1229.8	1244.7	1251.5
22.5°	1193.1	1195.8	1206.7	1225.7	1232.5
25°	1163.3	1167.3	1182.3	1202.6	1210.8
27.5°	1133.4	1137.5	1153.7	1176.8	1187.7
30°	1100.8	1106.2	1122.5	1147.0	1156.5
32.5°	1064.2	1068.2	1088.6	1113.0	1122.5
35°	1026.2	1030.2	1051.9	1075.0	1084.5
37.5°	988.2	988.2	1009.9	1037.0	1046.5
40°	942.0	943.4	966.4	992.2	997.7
42.5°	898.6	898.6	918.9	943.4	952.9
45°	849.7	851.1	871.4	893.1	898.6
47.5°	799.5	799.5	817.1	837.5	842.9
50°	746.5	743.8	764.2	780.5	784.5
52.5°	692.2	688.2	704.5	718.0	723.5
55°	633.9	629.8	642.0	655.6	661.0
57.5°	572.8	567.4	580.9	593.2	595.9
60°	515.8	507.6	518.5	525.3	532.1
62.5°	458.8	449.3	457.4	461.5	466.9
65°	400.4	390.9	397.7	400.4	407.2
67.5°	344.8	338.0	339.3	343.4	346.1
70°	294.5	286.4	286.4	286.4	287.8
72.5°	248.4	236.2	234.8	236.2	236.2
75°	198.2	190.0	187.3	187.3	186.0
77.5°	158.8	148.0	146.6	143.9	141.2
80°	115.4	105.9	103.2	101.8	100.4
82.5°	80.1	71.9	69.2	66.5	62.4
85°	47.5	42.1	36.6	32.6	28.5
87.5°	17.6	16.3	13.6	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)