

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: P296099

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296099
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-LD5-36-RDP-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3046.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

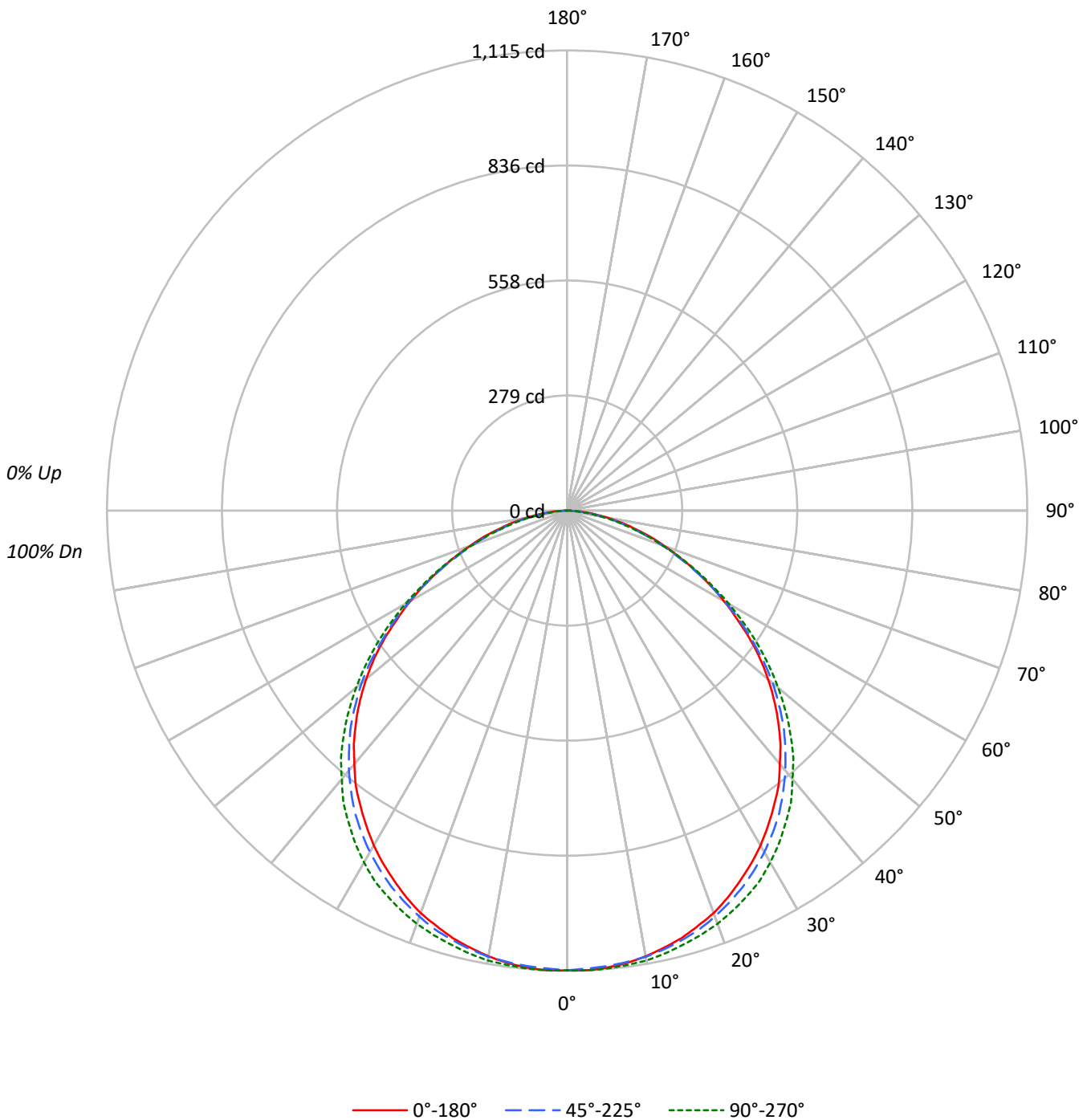
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1499	1499	1499
5°	1501	1497	1504
10°	1498	1500	1512
15°	1494	1500	1516
20°	1486	1499	1525
25°	1470	1494	1530
30°	1456	1485	1530
35°	1435	1471	1517
40°	1408	1445	1492
45°	1376	1412	1456
50°	1330	1362	1398
55°	1266	1282	1320
60°	1182	1188	1219
65°	1085	1078	1104
70°	987	959	964
75°	877	829	823
80°	761	680	662
85°	624	482	375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.5
10°-20°	304.6	10.0
20°-30°	464.9	15.3
30°-40°	560.4	18.4
40°-50°	571.5	18.8
50°-60°	489.1	16.1
60°-70°	336.9	11.1
70°-80°	172.7	5.7
80°-90°	40.2	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°	875.1	28.7
0°-40°	1435.5	47.1
0°-60°	2496.1	81.9
0°-90°	3046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1112	1109	1108	1112	1114	106
15°	1072	1071	1077	1085	1088	302
25°	990	994	1006	1024	1031	457
35°	874	877	896	915	923	547
45°	723	724	742	760	765	557
55°	540	536	547	558	563	481
65°	341	333	339	341	347	339
75°	169	162	160	160	158	182
85°	40	36	31	28	24	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	1115.1	1112.8	1110.5	1112.8	1115.1
5°	1111.6	1109.3	1108.2	1111.6	1113.9
7.5°	1105.8	1103.5	1103.5	1108.2	1110.5
10°	1096.6	1095.4	1097.8	1102.4	1107.0
12.5°	1085.0	1085.0	1088.5	1094.3	1098.9
15°	1072.3	1071.2	1077.0	1085.0	1088.5
17.5°	1055.0	1056.2	1064.2	1073.5	1078.1
20°	1037.7	1038.8	1046.9	1059.6	1065.4
22.5°	1015.7	1018.0	1027.3	1043.4	1049.2
25°	990.3	993.8	1006.5	1023.8	1030.7
27.5°	964.9	968.3	982.2	1001.8	1011.1
30°	937.1	941.8	955.6	976.4	984.5
32.5°	905.9	909.4	926.7	947.5	955.6
35°	873.6	877.0	895.5	915.2	923.3
37.5°	841.2	841.2	859.7	882.8	890.9
40°	801.9	803.1	822.7	844.7	849.3
42.5°	765.0	765.0	782.3	803.1	811.2
45°	723.4	724.5	741.9	760.3	765.0
47.5°	680.6	680.6	695.6	713.0	717.6
50°	635.5	633.2	650.6	664.4	667.9
52.5°	589.3	585.9	599.7	611.3	615.9
55°	539.6	536.2	546.6	558.1	562.7
57.5°	487.6	483.0	494.6	505.0	507.3
60°	439.1	432.2	441.4	447.2	453.0
62.5°	390.6	382.5	389.4	392.9	397.5
65°	340.9	332.8	338.6	340.9	346.7
67.5°	293.5	287.7	288.9	292.3	294.7
70°	250.8	243.8	243.8	243.8	245.0
72.5°	211.5	201.1	199.9	201.1	201.1
75°	168.7	161.8	159.5	159.5	158.3
77.5°	135.2	126.0	124.8	122.5	120.2
80°	98.2	90.1	87.8	86.7	85.5
82.5°	68.2	61.2	58.9	56.6	53.2
85°	40.4	35.8	31.2	27.7	24.3
87.5°	15.0	13.9	11.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)