

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: P296160

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296160
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-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

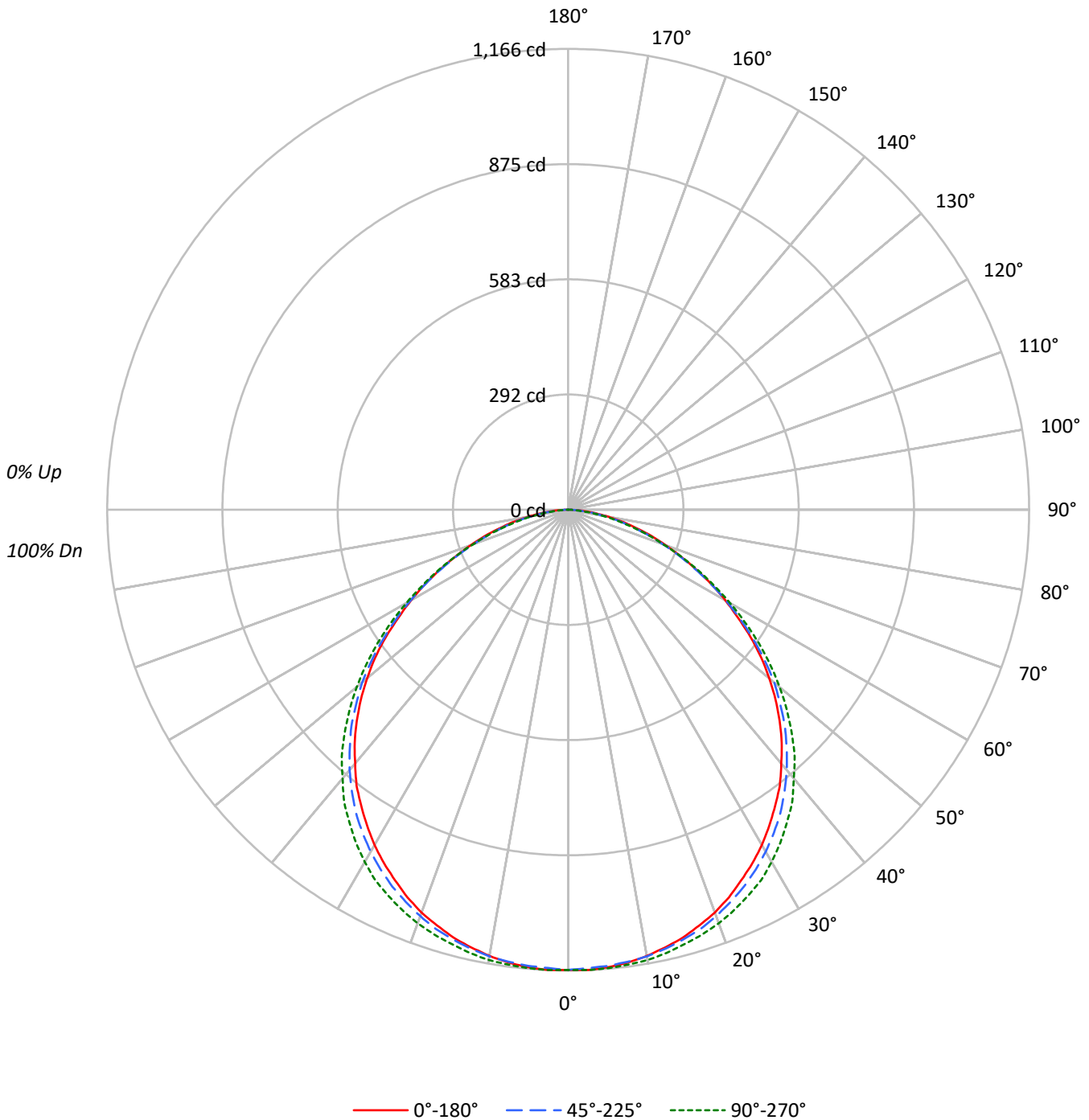
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1567	1567	1567
5°	1569	1565	1573
10°	1566	1568	1581
15°	1561	1568	1585
20°	1553	1567	1595
25°	1537	1562	1599
30°	1522	1552	1599
35°	1500	1538	1585
40°	1472	1511	1559
45°	1439	1476	1521
50°	1391	1423	1461
55°	1323	1340	1380
60°	1235	1242	1274
65°	1134	1127	1154
70°	1031	1003	1007
75°	917	867	860
80°	796	711	693
85°	653	503	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.5
10°-20°	318.4	10.0
20°-30°	485.9	15.3
30°-40°	585.8	18.4
40°-50°	597.4	18.8
50°-60°	511.3	16.1
60°-70°	352.2	11.1
70°-80°	180.6	5.7
80°-90°	42.0	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°	914.7	28.7
0°-40°	1500.5	47.1
0°-60°	2609.2	81.9
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1162	1160	1158	1162	1164	110
15°	1121	1120	1126	1134	1138	316
25°	1035	1039	1052	1070	1077	477
35°	913	917	936	957	965	571
45°	756	757	776	795	800	583
55°	564	560	571	583	588	503
65°	356	348	354	356	362	354
75°	176	169	167	167	166	190
85°	42	37	33	29	25	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.4	1164.4	1164.4	1164.4	1164.4
2.5°	1165.6	1163.2	1160.8	1163.2	1165.6
5°	1162.0	1159.6	1158.4	1162.0	1164.4
7.5°	1155.9	1153.5	1153.5	1158.4	1160.8
10°	1146.3	1145.1	1147.5	1152.3	1157.2
12.5°	1134.2	1134.2	1137.8	1143.9	1148.7
15°	1120.9	1119.7	1125.7	1134.2	1137.8
17.5°	1102.8	1104.0	1112.5	1122.1	1127.0
20°	1084.7	1085.9	1094.3	1107.6	1113.7
22.5°	1061.7	1064.1	1073.8	1090.7	1096.8
25°	1035.2	1038.8	1052.1	1070.2	1077.4
27.5°	1008.6	1012.2	1026.7	1047.2	1056.9
30°	979.6	984.4	998.9	1020.7	1029.1
32.5°	947.0	950.6	968.7	990.5	998.9
35°	913.2	916.8	936.1	956.6	965.1
37.5°	879.3	879.3	898.7	922.8	931.3
40°	838.3	839.5	860.0	883.0	887.8
42.5°	799.6	799.6	817.7	839.5	847.9
45°	756.1	757.3	775.5	794.8	799.6
47.5°	711.4	711.4	727.1	745.3	750.1
50°	664.3	661.9	680.0	694.5	698.2
52.5°	616.0	612.4	626.9	639.0	643.8
55°	564.1	560.5	571.3	583.4	588.2
57.5°	509.7	504.9	517.0	527.8	530.3
60°	459.0	451.7	461.4	467.5	473.5
62.5°	408.3	399.8	407.1	410.7	415.5
65°	356.3	347.9	353.9	356.3	362.4
67.5°	306.8	300.8	302.0	305.6	308.0
70°	262.1	254.9	254.9	254.9	256.1
72.5°	221.0	210.2	209.0	210.2	210.2
75°	176.4	169.1	166.7	166.7	165.5
77.5°	141.3	131.7	130.5	128.0	125.6
80°	102.7	94.2	91.8	90.6	89.4
82.5°	71.3	64.0	61.6	59.2	55.6
85°	42.3	37.4	32.6	29.0	25.4
87.5°	15.7	14.5	12.1	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)