

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: P296100

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296100
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3198.0 lumens
Efficiency: N/A
Efficacy: 124.1 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

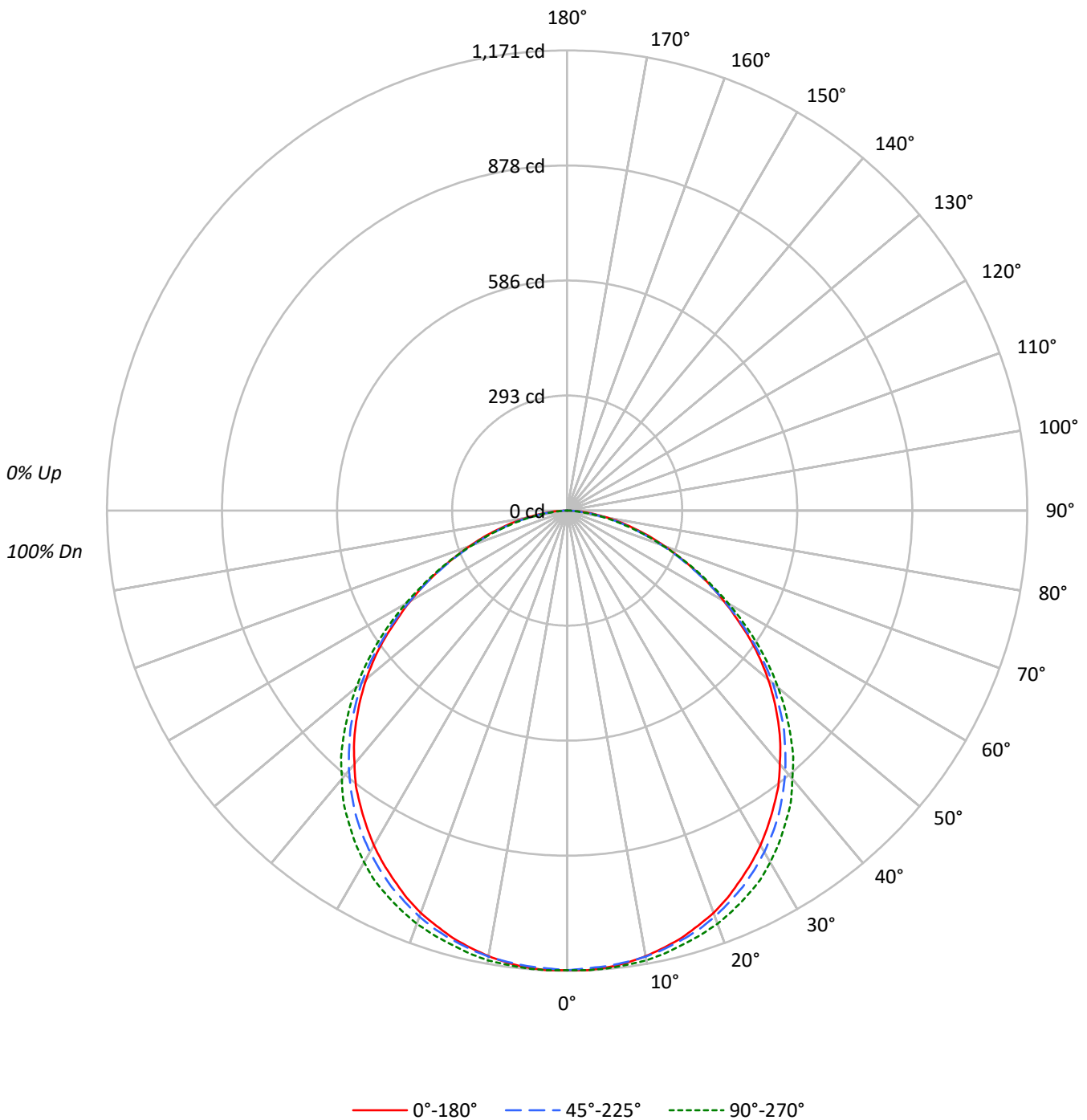
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1574	1574	1574
5°	1576	1571	1580
10°	1573	1575	1588
15°	1568	1575	1592
20°	1560	1574	1602
25°	1544	1569	1607
30°	1529	1559	1606
35°	1507	1544	1592
40°	1479	1517	1566
45°	1445	1482	1528
50°	1397	1430	1468
55°	1329	1346	1386
60°	1241	1247	1280
65°	1139	1132	1159
70°	1036	1007	1012
75°	921	870	864
80°	799	714	696
85°	656	506	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.5
10°-20°	319.8	10.0
20°-30°	488.1	15.3
30°-40°	588.4	18.4
40°-50°	600.0	18.8
50°-60°	513.5	16.1
60°-70°	353.7	11.1
70°-80°	181.3	5.7
80°-90°	42.2	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°	918.7	28.7
0°-40°	1507.1	47.1
0°-60°	2620.7	81.9
0°-90°	3198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1167	1165	1164	1167	1170	111
15°	1126	1125	1131	1139	1143	317
25°	1040	1043	1057	1075	1082	479
35°	917	921	940	961	969	574
45°	760	761	779	798	803	585
55°	567	563	574	586	591	505
65°	358	349	356	358	364	356
75°	177	170	167	167	166	191
85°	42	38	33	29	26	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.5	1169.5	1169.5	1169.5	1169.5
2.5°	1170.7	1168.3	1165.9	1168.3	1170.7
5°	1167.1	1164.7	1163.5	1167.1	1169.5
7.5°	1161.0	1158.6	1158.6	1163.5	1165.9
10°	1151.3	1150.1	1152.5	1157.4	1162.2
12.5°	1139.2	1139.2	1142.8	1148.9	1153.7
15°	1125.8	1124.6	1130.7	1139.2	1142.8
17.5°	1107.6	1108.9	1117.4	1127.1	1131.9
20°	1089.4	1090.7	1099.2	1112.5	1118.6
22.5°	1066.4	1068.8	1078.5	1095.5	1101.6
25°	1039.7	1043.3	1056.7	1074.9	1082.2
27.5°	1013.0	1016.7	1031.2	1051.8	1061.5
30°	983.9	988.8	1003.3	1025.2	1033.6
32.5°	951.1	954.8	973.0	994.8	1003.3
35°	917.2	920.8	940.2	960.9	969.3
37.5°	883.2	883.2	902.6	926.9	935.4
40°	842.0	843.2	863.8	886.8	891.7
42.5°	803.1	803.1	821.3	843.2	851.7
45°	759.5	760.7	778.9	798.3	803.1
47.5°	714.6	714.6	730.3	748.5	753.4
50°	667.3	664.8	683.0	697.6	701.2
52.5°	618.7	615.1	629.6	641.8	646.6
55°	566.6	562.9	573.8	586.0	590.8
57.5°	512.0	507.1	519.2	530.2	532.6
60°	461.0	453.7	463.4	469.5	475.6
62.5°	410.1	401.6	408.8	412.5	417.3
65°	357.9	349.4	355.5	357.9	364.0
67.5°	308.2	302.1	303.3	306.9	309.4
70°	263.3	256.0	256.0	256.0	257.2
72.5°	222.0	211.1	209.9	211.1	211.1
75°	177.1	169.8	167.4	167.4	166.2
77.5°	141.9	132.2	131.0	128.6	126.2
80°	103.1	94.6	92.2	91.0	89.8
82.5°	71.6	64.3	61.9	59.4	55.8
85°	42.5	37.6	32.8	29.1	25.5
87.5°	15.8	14.6	12.1	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)