

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: P296250

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296250
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-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3461.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

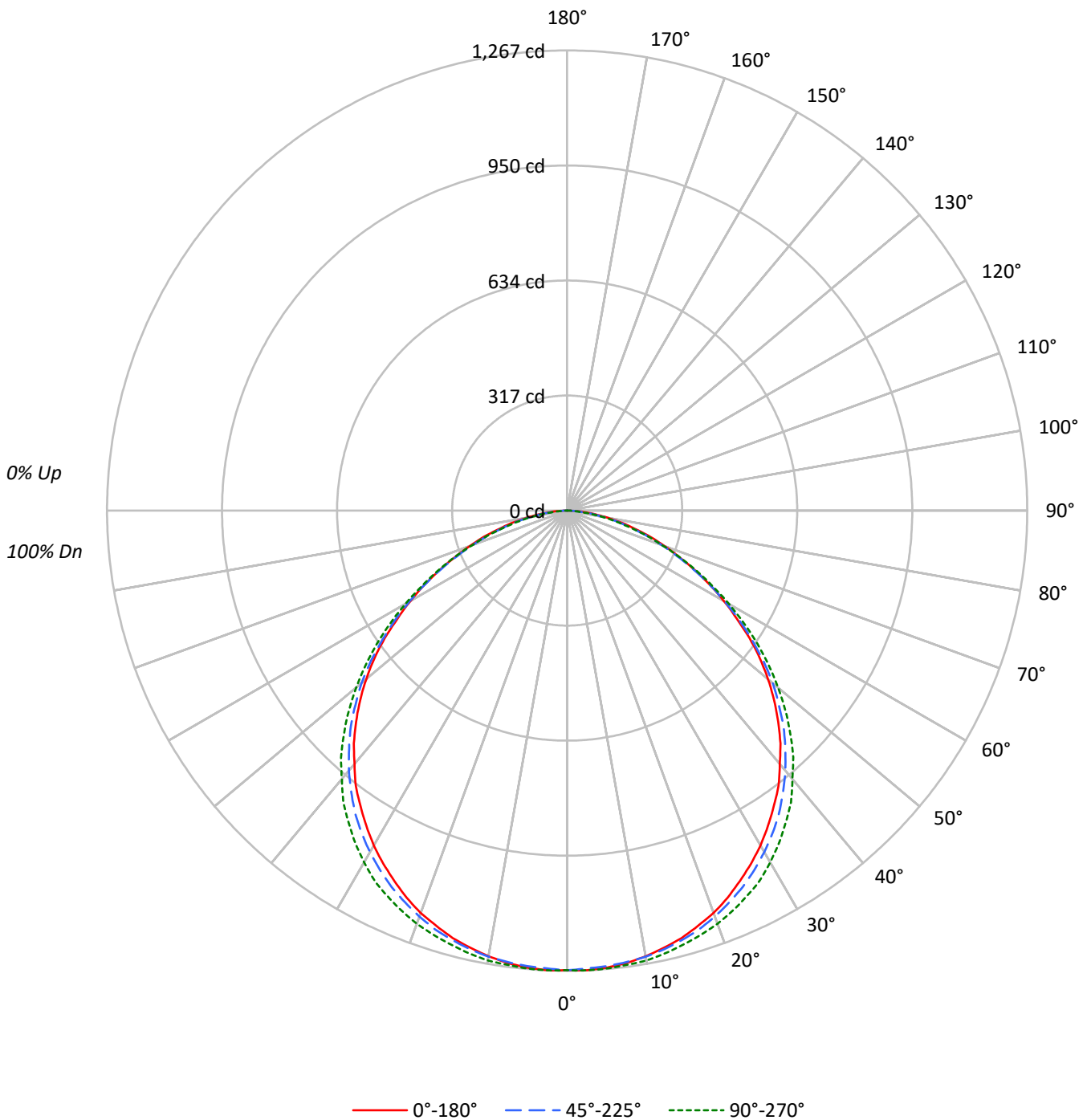
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1703	1703	1703
5°	1706	1701	1709
10°	1702	1704	1718
15°	1697	1705	1723
20°	1688	1703	1733
25°	1670	1698	1739
30°	1654	1687	1738
35°	1630	1671	1723
40°	1600	1642	1695
45°	1564	1604	1654
50°	1512	1547	1589
55°	1438	1457	1500
60°	1343	1350	1385
65°	1233	1225	1254
70°	1121	1090	1095
75°	997	942	935
80°	865	773	753
85°	710	548	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.5
10°-20°	346.0	10.0
20°-30°	528.2	15.3
30°-40°	636.8	18.4
40°-50°	649.4	18.8
50°-60°	555.8	16.1
60°-70°	382.8	11.1
70°-80°	196.3	5.7
80°-90°	45.7	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°	994.3	28.7
0°-40°	1631.1	47.1
0°-60°	2836.2	81.9
0°-90°	3461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1263	1260	1259	1263	1266	120
15°	1218	1217	1224	1233	1237	344
25°	1125	1129	1144	1163	1171	519
35°	993	996	1018	1040	1049	621
45°	822	823	843	864	869	633
55°	613	609	621	634	639	547
65°	387	378	385	387	394	385
75°	192	184	181	181	180	207
85°	46	41	36	32	28	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.7	1265.7	1265.7	1265.7	1265.7
2.5°	1267.0	1264.4	1261.8	1264.4	1267.0
5°	1263.1	1260.4	1259.1	1263.1	1265.7
7.5°	1256.5	1253.9	1253.9	1259.1	1261.8
10°	1246.0	1244.7	1247.3	1252.6	1257.8
12.5°	1232.9	1232.9	1236.8	1243.4	1248.6
15°	1218.4	1217.1	1223.7	1232.9	1236.8
17.5°	1198.7	1200.1	1209.2	1219.7	1225.0
20°	1179.0	1180.4	1189.5	1204.0	1210.6
22.5°	1154.1	1156.7	1167.2	1185.6	1192.2
25°	1125.2	1129.2	1143.6	1163.3	1171.2
27.5°	1096.3	1100.3	1116.0	1138.3	1148.8
30°	1064.8	1070.1	1085.8	1109.5	1118.6
32.5°	1029.4	1033.3	1053.0	1076.6	1085.8
35°	992.6	996.5	1017.5	1039.9	1049.1
37.5°	955.8	955.8	976.8	1003.1	1012.3
40°	911.2	912.5	934.8	959.8	965.0
42.5°	869.2	869.2	888.9	912.5	921.7
45°	821.9	823.2	842.9	863.9	869.2
47.5°	773.3	773.3	790.4	810.1	815.4
50°	722.1	719.5	739.2	755.0	758.9
52.5°	669.6	665.7	681.4	694.6	699.8
55°	613.2	609.2	621.0	634.2	639.4
57.5°	554.1	548.8	562.0	573.8	576.4
60°	498.9	491.0	501.6	508.1	514.7
62.5°	443.8	434.6	442.5	446.4	451.7
65°	387.3	378.1	384.7	387.3	393.9
67.5°	333.5	326.9	328.2	332.2	334.8
70°	284.9	277.0	277.0	277.0	278.3
72.5°	240.3	228.5	227.1	228.5	228.5
75°	191.7	183.8	181.2	181.2	179.9
77.5°	153.6	143.1	141.8	139.2	136.5
80°	111.6	102.4	99.8	98.5	97.2
82.5°	77.5	69.6	67.0	64.3	60.4
85°	46.0	40.7	35.5	31.5	27.6
87.5°	17.1	15.8	13.1	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)