

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: P296254

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296254
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-LD5-50-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3518.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

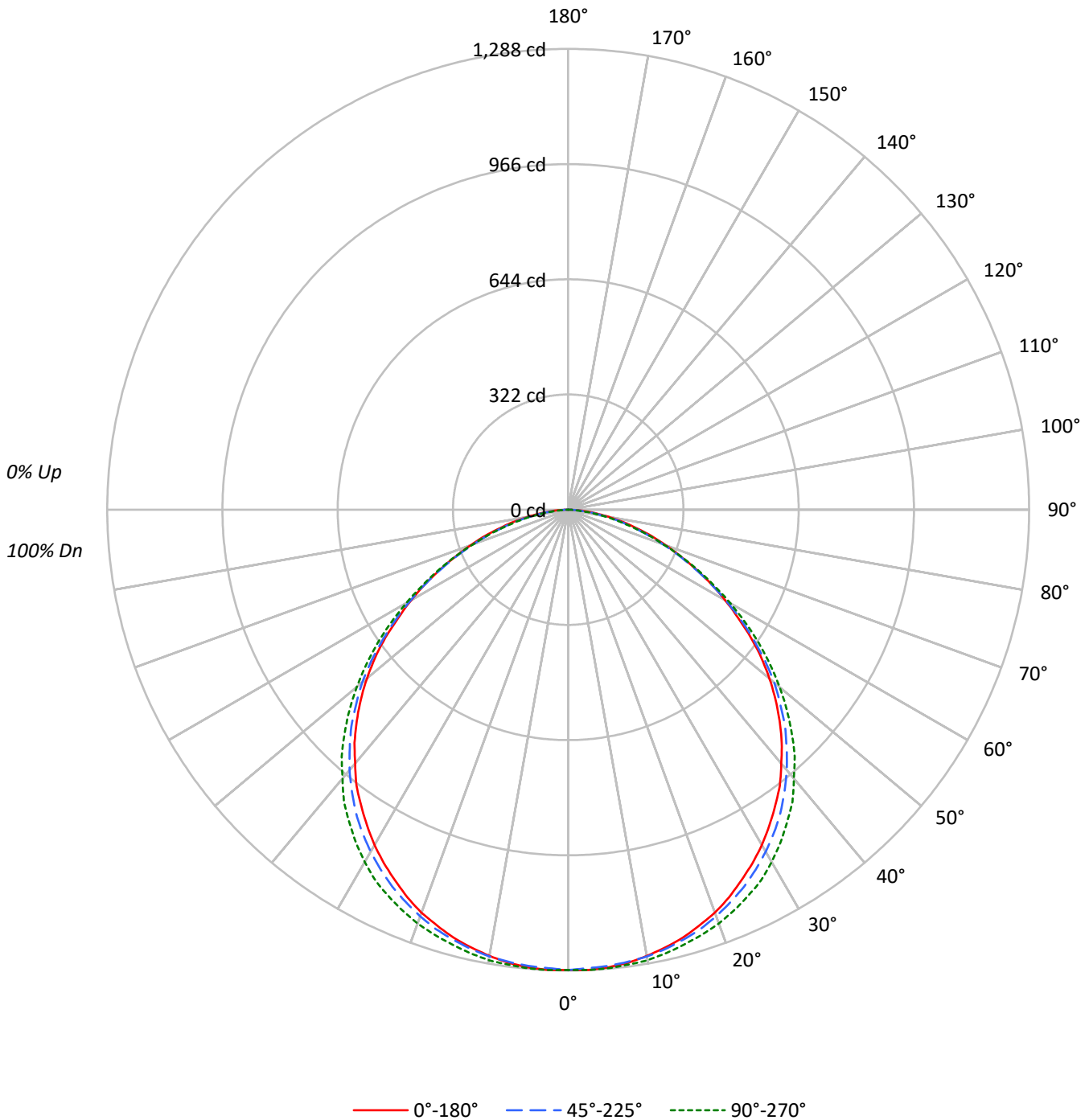
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1731	1731	1731
5°	1734	1729	1738
10°	1730	1732	1747
15°	1725	1733	1751
20°	1716	1731	1762
25°	1698	1726	1767
30°	1682	1715	1767
35°	1657	1699	1751
40°	1627	1669	1723
45°	1590	1630	1681
50°	1536	1573	1615
55°	1462	1481	1525
60°	1365	1372	1408
65°	1253	1245	1275
70°	1139	1108	1113
75°	1013	958	950
80°	879	786	766
85°	721	556	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.5
10°-20°	351.8	10.0
20°-30°	536.9	15.3
30°-40°	647.3	18.4
40°-50°	660.1	18.8
50°-60°	564.9	16.1
60°-70°	389.1	11.1
70°-80°	199.5	5.7
80°-90°	46.4	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°	1010.7	28.7
0°-40°	1658.0	47.1
0°-60°	2883.0	81.9
0°-90°	3518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1284	1281	1280	1284	1286	122
15°	1238	1237	1244	1253	1257	349
25°	1144	1148	1162	1182	1190	527
35°	1009	1013	1034	1057	1066	631
45°	836	837	857	878	884	644
55°	623	619	631	645	650	556
65°	394	384	391	394	400	391
75°	195	187	184	184	183	210
85°	47	41	36	32	28	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1287.9	1285.2	1282.5	1285.2	1287.9
5°	1283.9	1281.2	1279.9	1283.9	1286.5
7.5°	1277.2	1274.5	1274.5	1279.9	1282.5
10°	1266.5	1265.2	1267.9	1273.2	1278.5
12.5°	1253.2	1253.2	1257.2	1263.9	1269.2
15°	1238.5	1237.2	1243.8	1253.2	1257.2
17.5°	1218.5	1219.8	1229.2	1239.8	1245.2
20°	1198.5	1199.8	1209.1	1223.8	1230.5
22.5°	1173.1	1175.8	1186.5	1205.1	1211.8
25°	1143.7	1147.7	1162.4	1182.4	1190.5
27.5°	1114.4	1118.4	1134.4	1157.1	1167.8
30°	1082.4	1087.7	1103.7	1127.7	1137.1
32.5°	1046.3	1050.3	1070.3	1094.4	1103.7
35°	1009.0	1013.0	1034.3	1057.0	1066.3
37.5°	971.6	971.6	992.9	1019.6	1029.0
40°	926.2	927.5	950.2	975.6	980.9
42.5°	883.5	883.5	903.5	927.5	936.9
45°	835.5	836.8	856.8	878.2	883.5
47.5°	786.1	786.1	803.4	823.4	828.8
50°	734.0	731.4	751.4	767.4	771.4
52.5°	680.6	676.6	692.7	706.0	711.3
55°	623.3	619.3	631.3	644.6	649.9
57.5°	563.2	557.9	571.2	583.2	585.9
60°	507.1	499.1	509.8	516.5	523.2
62.5°	451.1	441.7	449.8	453.8	459.1
65°	393.7	384.4	391.0	393.7	400.4
67.5°	339.0	332.3	333.6	337.7	340.3
70°	289.6	281.6	281.6	281.6	282.9
72.5°	244.2	232.2	230.9	232.2	232.2
75°	194.9	186.8	184.2	184.2	182.8
77.5°	156.1	145.5	144.1	141.5	138.8
80°	113.4	104.1	101.4	100.1	98.8
82.5°	78.7	70.7	68.1	65.4	61.4
85°	46.7	41.4	36.0	32.0	28.0
87.5°	17.3	16.0	13.3	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)