

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: P296252

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296252
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3522.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

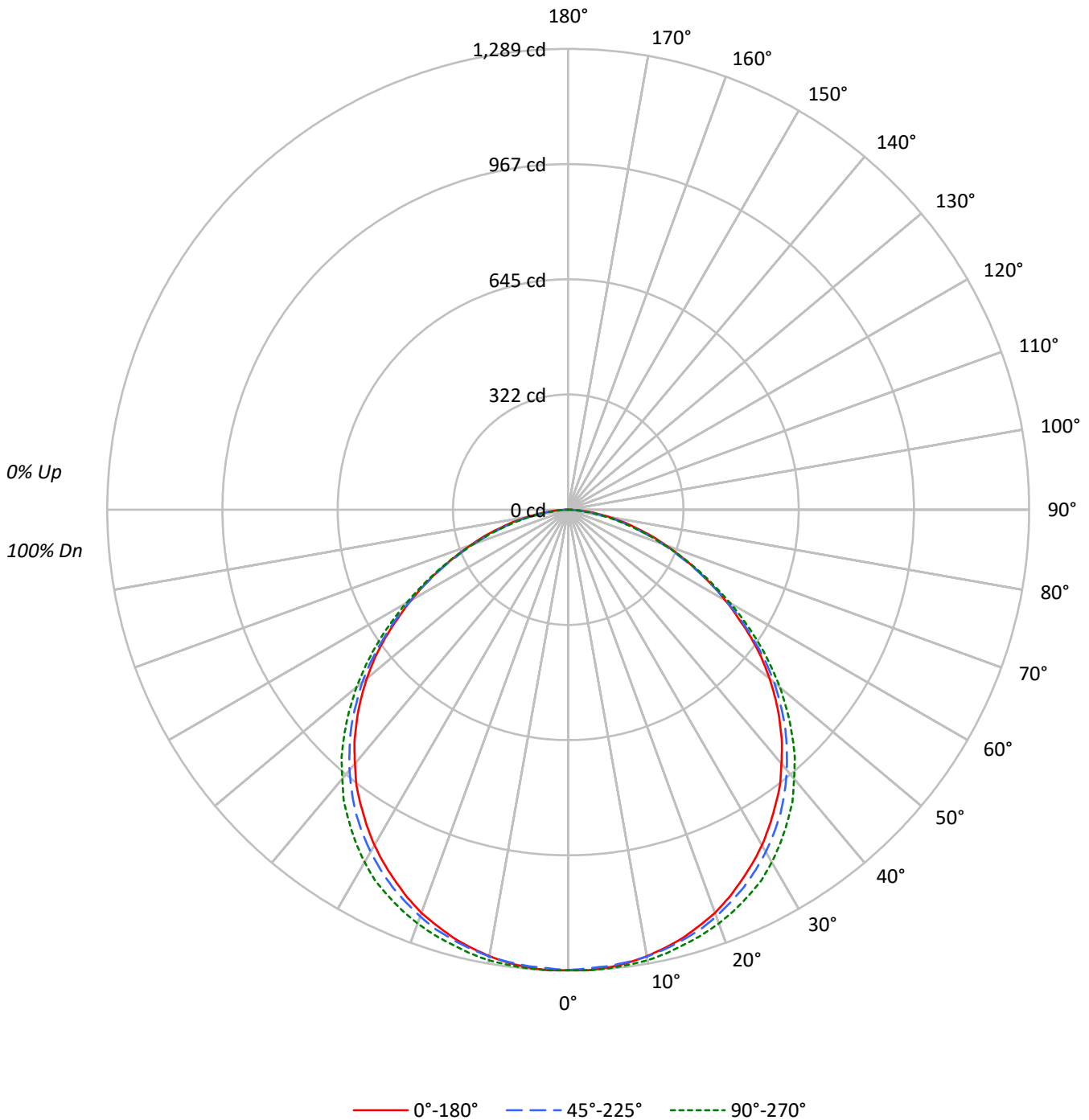
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1733	1733	1733
5°	1736	1731	1740
10°	1732	1734	1749
15°	1727	1735	1753
20°	1718	1733	1764
25°	1700	1728	1769
30°	1684	1717	1769
35°	1659	1701	1754
40°	1629	1671	1725
45°	1592	1632	1683
50°	1538	1575	1617
55°	1464	1483	1526
60°	1366	1373	1410
65°	1255	1246	1276
70°	1140	1109	1114
75°	1014	959	951
80°	880	786	766
85°	722	557	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.5
10°-20°	352.1	10.0
20°-30°	537.5	15.3
30°-40°	648.0	18.4
40°-50°	660.8	18.8
50°-60°	565.6	16.1
60°-70°	389.6	11.1
70°-80°	199.7	5.7
80°-90°	46.5	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°	1011.8	28.7
0°-40°	1659.9	47.1
0°-60°	2886.2	81.9
0°-90°	3522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1285	1283	1281	1285	1288	122
15°	1240	1239	1245	1255	1259	350
25°	1145	1149	1164	1184	1192	528
35°	1010	1014	1036	1058	1068	632
45°	836	838	858	879	884	644
55°	624	620	632	645	651	557
65°	394	385	392	394	401	392
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°	1288.0	1288.0	1288.0	1288.0	1288.0
2.5°	1289.3	1286.7	1284.0	1286.7	1289.3
5°	1285.3	1282.7	1281.3	1285.3	1288.0
7.5°	1278.7	1276.0	1276.0	1281.3	1284.0
10°	1268.0	1266.6	1269.3	1274.6	1280.0
12.5°	1254.6	1254.6	1258.6	1265.3	1270.6
15°	1239.9	1238.6	1245.3	1254.6	1258.6
17.5°	1219.9	1221.2	1230.6	1241.2	1246.6
20°	1199.8	1201.2	1210.5	1225.2	1231.9
22.5°	1174.4	1177.1	1187.8	1206.5	1213.2
25°	1145.0	1149.1	1163.8	1183.8	1191.8
27.5°	1115.7	1119.7	1135.7	1158.4	1169.1
30°	1083.6	1088.9	1105.0	1129.0	1138.4
32.5°	1047.5	1051.5	1071.6	1095.6	1105.0
35°	1010.1	1014.1	1035.5	1058.2	1067.6
37.5°	972.7	972.7	994.1	1020.8	1030.1
40°	927.3	928.6	951.3	976.7	982.0
42.5°	884.5	884.5	904.5	928.6	937.9
45°	836.4	837.7	857.8	879.2	884.5
47.5°	787.0	787.0	804.3	824.4	829.7
50°	734.9	732.2	752.2	768.3	772.3
52.5°	681.4	677.4	693.4	706.8	712.1
55°	624.0	620.0	632.0	645.3	650.7
57.5°	563.8	558.5	571.9	583.9	586.6
60°	507.7	499.7	510.4	517.1	523.8
62.5°	451.6	442.3	450.3	454.3	459.6
65°	394.2	384.8	391.5	394.2	400.8
67.5°	339.4	332.7	334.0	338.0	340.7
70°	289.9	281.9	281.9	281.9	283.3
72.5°	244.5	232.5	231.1	232.5	232.5
75°	195.1	187.1	184.4	184.4	183.0
77.5°	156.3	145.6	144.3	141.6	139.0
80°	113.6	104.2	101.5	100.2	98.9
82.5°	78.8	70.8	68.1	65.5	61.5
85°	46.8	41.4	36.1	32.1	28.1
87.5°	17.4	16.0	13.4	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)