

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: P296253

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296253
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-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3220.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

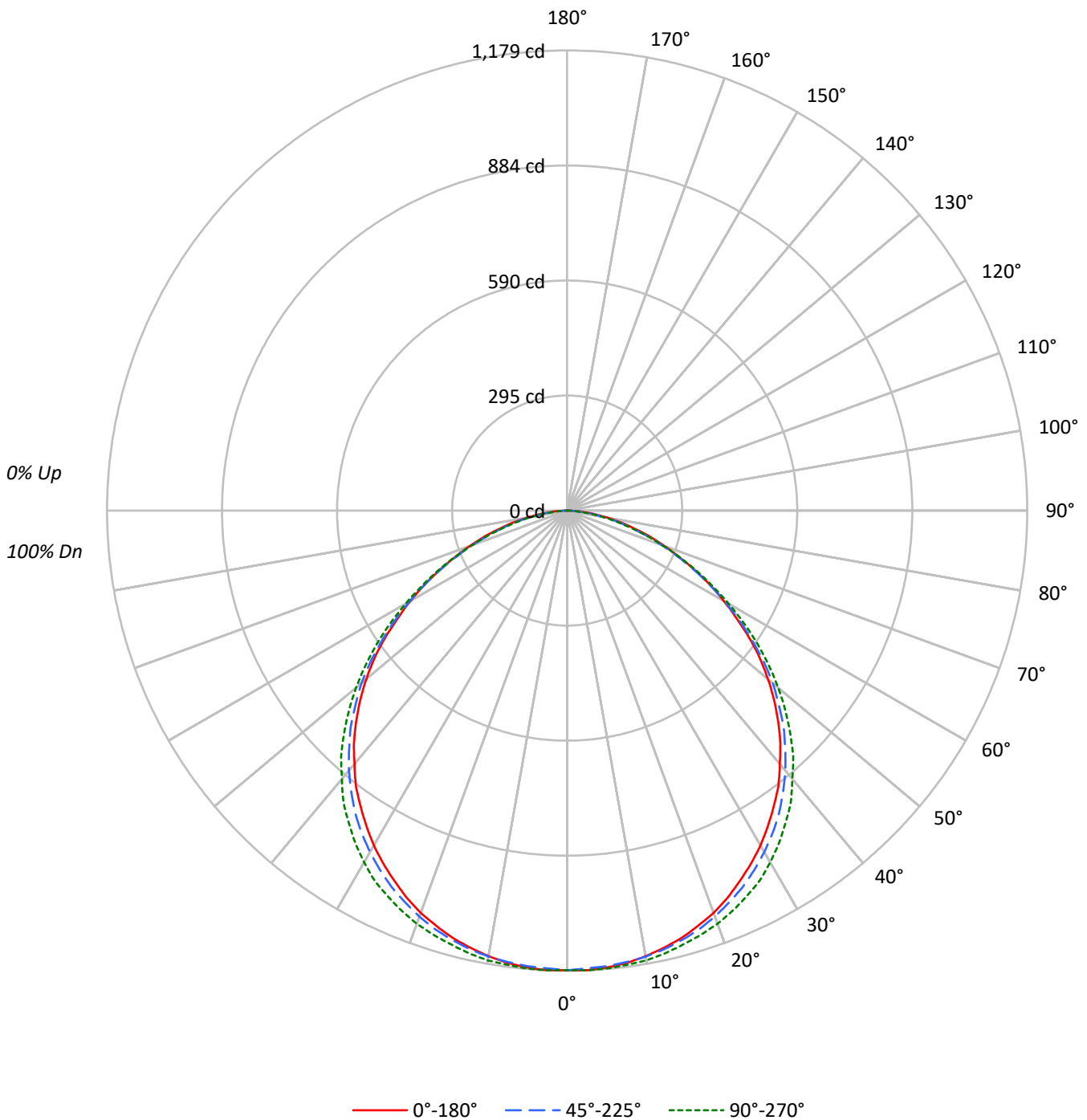
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1584	1584	1584
5°	1587	1582	1591
10°	1584	1586	1599
15°	1579	1586	1603
20°	1571	1585	1613
25°	1554	1580	1618
30°	1539	1569	1617
35°	1517	1555	1603
40°	1489	1528	1577
45°	1455	1492	1539
50°	1406	1440	1478
55°	1338	1355	1396
60°	1249	1256	1288
65°	1147	1139	1167
70°	1043	1014	1019
75°	927	876	870
80°	804	719	700
85°	661	509	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.5
10°-20°	322.0	10.0
20°-30°	491.4	15.3
30°-40°	592.5	18.4
40°-50°	604.2	18.8
50°-60°	517.1	16.1
60°-70°	356.2	11.1
70°-80°	182.6	5.7
80°-90°	42.5	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°	925.1	28.7
0°-40°	1517.5	47.1
0°-60°	2638.8	81.9
0°-90°	3220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1175	1173	1172	1175	1178	112
15°	1134	1132	1138	1147	1151	320
25°	1047	1050	1064	1082	1090	483
35°	924	927	947	968	976	578
45°	765	766	784	804	809	589
55°	570	567	578	590	595	509
65°	360	352	358	360	366	358
75°	178	171	169	169	167	192
85°	43	38	33	29	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.6	1177.6	1177.6	1177.6	1177.6
2.5°	1178.8	1176.3	1173.9	1176.3	1178.8
5°	1175.1	1172.7	1171.5	1175.1	1177.6
7.5°	1169.0	1166.6	1166.6	1171.5	1173.9
10°	1159.2	1158.0	1160.5	1165.4	1170.2
12.5°	1147.0	1147.0	1150.7	1156.8	1161.7
15°	1133.6	1132.4	1138.5	1147.0	1150.7
17.5°	1115.3	1116.5	1125.0	1134.8	1139.7
20°	1096.9	1098.2	1106.7	1120.2	1126.3
22.5°	1073.7	1076.2	1086.0	1103.1	1109.2
25°	1046.9	1050.5	1064.0	1082.3	1089.6
27.5°	1020.0	1023.7	1038.3	1059.1	1068.8
30°	990.7	995.6	1010.2	1032.2	1040.8
32.5°	957.7	961.4	979.7	1001.7	1010.2
35°	923.5	927.2	946.7	967.5	976.0
37.5°	889.3	889.3	908.8	933.3	941.8
40°	847.7	849.0	869.7	892.9	897.8
42.5°	808.7	808.7	827.0	849.0	857.5
45°	764.7	765.9	784.2	803.8	808.7
47.5°	719.5	719.5	735.4	753.7	758.6
50°	671.8	669.4	687.7	702.4	706.1
52.5°	623.0	619.3	634.0	646.2	651.1
55°	570.5	566.8	577.8	590.0	594.9
57.5°	515.5	510.6	522.8	533.8	536.3
60°	464.2	456.9	466.6	472.7	478.8
62.5°	412.9	404.3	411.7	415.3	420.2
65°	360.4	351.8	357.9	360.4	366.5
67.5°	310.3	304.2	305.4	309.1	311.5
70°	265.1	257.7	257.7	257.7	259.0
72.5°	223.5	212.5	211.3	212.5	212.5
75°	178.3	171.0	168.6	168.6	167.4
77.5°	142.9	133.1	131.9	129.5	127.0
80°	103.8	95.3	92.8	91.6	90.4
82.5°	72.1	64.7	62.3	59.9	56.2
85°	42.8	37.9	33.0	29.3	25.7
87.5°	15.9	14.7	12.2	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)