

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: P296255

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296255
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-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: 3799.0 lumens
Efficiency: N/A
Efficacy: 105.8 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

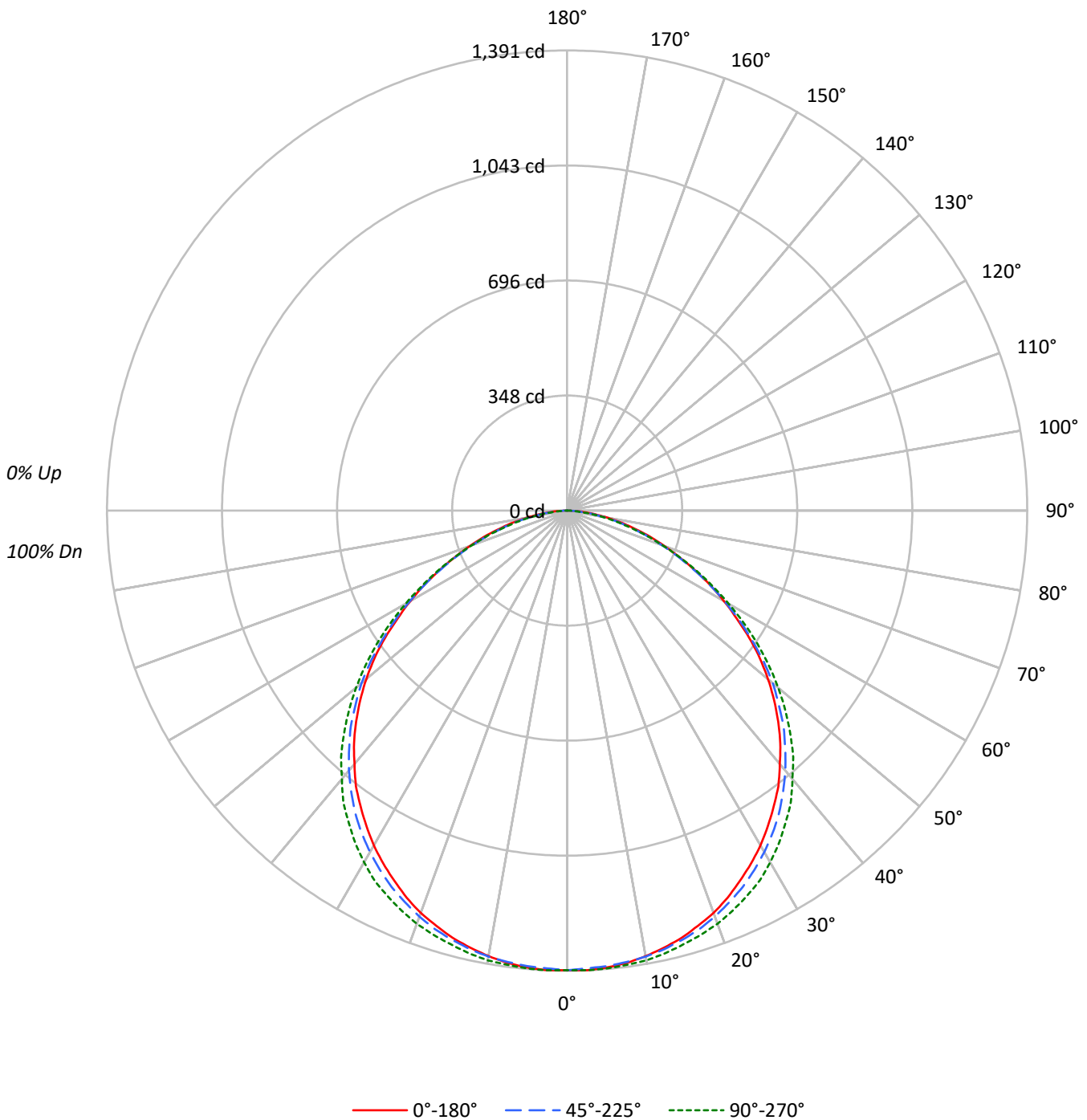
Input Watts (W): 35.898
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1869	1869	1869
5°	1873	1867	1876
10°	1869	1871	1886
15°	1863	1871	1891
20°	1853	1870	1903
25°	1834	1864	1908
30°	1816	1852	1908
35°	1790	1835	1891
40°	1757	1802	1861
45°	1717	1760	1815
50°	1659	1698	1744
55°	1579	1599	1647
60°	1474	1481	1520
65°	1354	1344	1377
70°	1230	1196	1202
75°	1094	1034	1026
80°	949	848	826
85°	778	601	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.5
10°-20°	379.8	10.0
20°-30°	579.8	15.3
30°-40°	699.0	18.4
40°-50°	712.8	18.8
50°-60°	610.0	16.1
60°-70°	420.2	11.1
70°-80°	215.4	5.7
80°-90°	50.1	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°	1091.4	28.7
0°-40°	1790.4	47.1
0°-60°	3113.2	81.9
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1386	1384	1382	1386	1389	132
15°	1337	1336	1343	1353	1358	377
25°	1235	1239	1255	1277	1286	570
35°	1090	1094	1117	1141	1152	682
45°	902	904	925	948	954	695
55°	673	669	682	696	702	600
65°	425	415	422	425	432	422
75°	210	202	199	199	197	227
85°	50	45	39	35	30	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1390.7	1387.9	1385.0	1387.9	1390.7
5°	1386.4	1383.5	1382.1	1386.4	1389.3
7.5°	1379.2	1376.3	1376.3	1382.1	1385.0
10°	1367.7	1366.2	1369.1	1374.9	1380.7
12.5°	1353.3	1353.3	1357.6	1364.8	1370.6
15°	1337.4	1336.0	1343.2	1353.3	1357.6
17.5°	1315.8	1317.2	1327.3	1338.9	1344.6
20°	1294.2	1295.6	1305.7	1321.6	1328.8
22.5°	1266.8	1269.7	1281.2	1301.4	1308.6
25°	1235.1	1239.4	1255.3	1276.9	1285.5
27.5°	1203.4	1207.7	1225.0	1249.5	1261.0
30°	1168.8	1174.6	1191.9	1217.8	1227.9
32.5°	1129.9	1134.2	1155.8	1181.8	1191.9
35°	1089.5	1093.9	1116.9	1141.4	1151.5
37.5°	1049.2	1049.2	1072.2	1101.1	1111.2
40°	1000.2	1001.6	1026.1	1053.5	1059.3
42.5°	954.1	954.1	975.7	1001.6	1011.7
45°	902.2	903.6	925.2	948.3	954.1
47.5°	848.9	848.9	867.6	889.2	895.0
50°	792.7	789.8	811.4	828.7	833.0
52.5°	735.0	730.7	748.0	762.4	768.2
55°	673.0	668.7	681.7	696.1	701.9
57.5°	608.2	602.4	616.8	629.8	632.7
60°	547.7	539.0	550.5	557.7	564.9
62.5°	487.1	477.0	485.7	490.0	495.8
65°	425.2	415.1	422.3	425.2	432.4
67.5°	366.1	358.9	360.3	364.6	367.5
70°	312.7	304.1	304.1	304.1	305.5
72.5°	263.7	250.8	249.3	250.8	250.8
75°	210.4	201.8	198.9	198.9	197.4
77.5°	168.6	157.1	155.6	152.8	149.9
80°	122.5	112.4	109.5	108.1	106.6
82.5°	85.0	76.4	73.5	70.6	66.3
85°	50.4	44.7	38.9	34.6	30.3
87.5°	18.7	17.3	14.4	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)