

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: P295964

Luminaire Tested: **24RLN-LD5-42-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3582.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

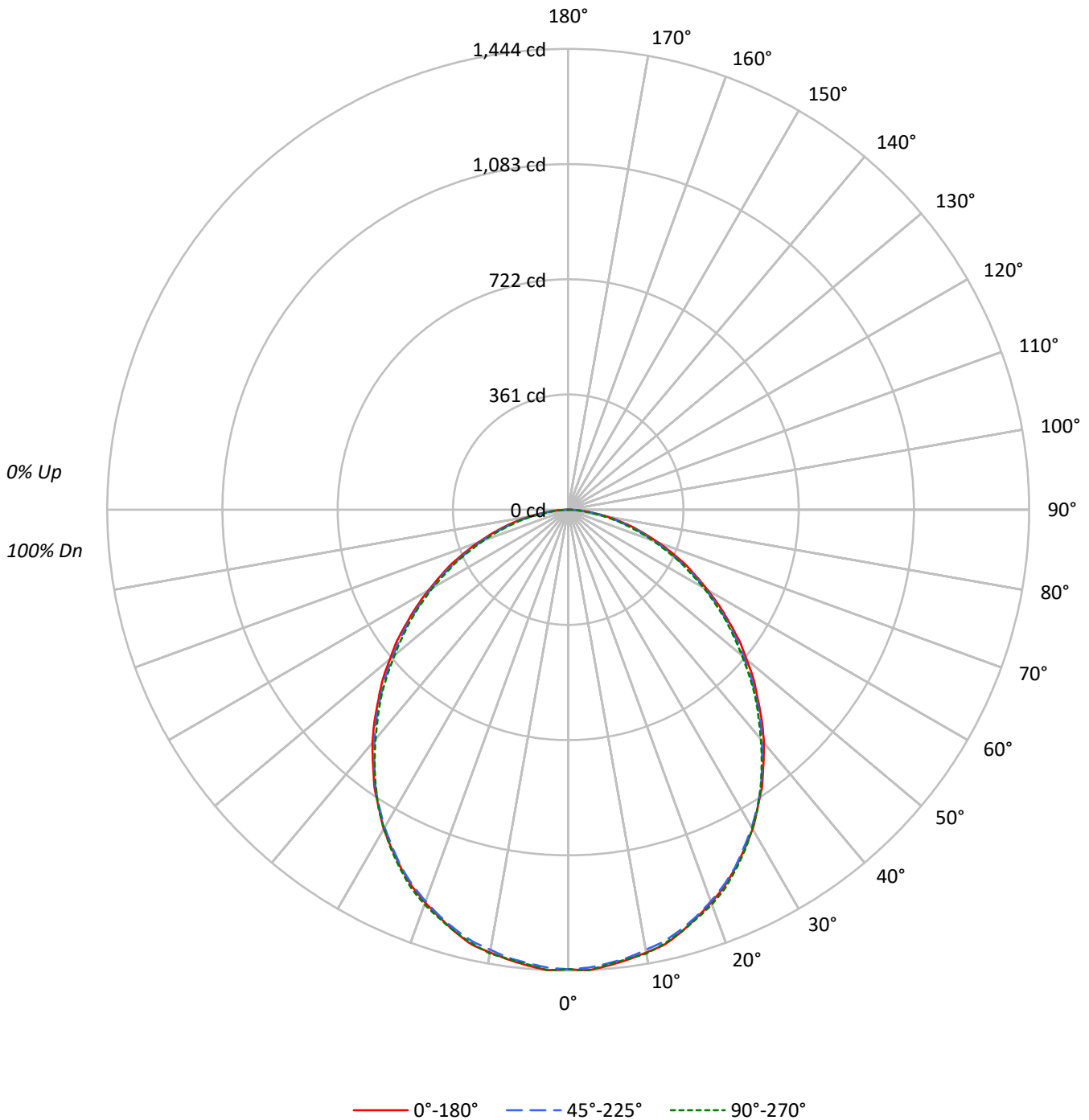
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1937	1928	1932
10°	1925	1914	1929
15°	1908	1898	1908
20°	1876	1870	1885
25°	1839	1836	1846
30°	1795	1786	1792
35°	1739	1731	1727
40°	1675	1658	1648
45°	1599	1583	1577
50°	1526	1502	1485
55°	1445	1423	1410
60°	1359	1334	1319
65°	1284	1236	1225
70°	1177	1132	1109
75°	1081	1015	973
80°	949	886	833
85°	767	713	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.8
10°-20°	385.1	10.8
20°-30°	569.7	15.9
30°-40°	657.5	18.4
40°-50°	642.2	17.9
50°-60°	542.3	15.1
60°-70°	386.3	10.8
70°-80°	209.1	5.8
80°-90°	53.9	1.5
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°	1090.7	30.4
0°-40°	1748.2	48.8
0°-60°	2932.6	81.9
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1434	1434	1427	1431	1431	136
15°	1369	1364	1362	1368	1369	386
25°	1239	1232	1236	1241	1243	570
35°	1058	1050	1054	1050	1052	661
45°	840	833	832	829	829	650
55°	616	608	607	601	601	552
65°	403	395	388	384	385	398
75°	208	201	195	191	187	220
85°	50	48	46	40	39	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.9	1439.9	1439.9	1439.9	1439.9
2.5°	1444.5	1438.7	1436.4	1437.6	1444.5
5°	1434.1	1434.1	1427.2	1430.6	1430.6
7.5°	1422.5	1423.7	1416.8	1422.5	1420.2
10°	1408.7	1405.2	1400.6	1409.8	1412.1
12.5°	1395.9	1387.9	1385.5	1391.3	1392.5
15°	1369.4	1363.6	1362.4	1368.2	1369.4
17.5°	1339.3	1340.5	1335.9	1343.9	1342.8
20°	1310.4	1308.1	1305.8	1315.1	1316.2
22.5°	1278.1	1271.1	1273.5	1281.5	1283.9
25°	1238.8	1231.9	1236.5	1241.1	1243.4
27.5°	1197.2	1193.7	1192.6	1198.3	1200.7
30°	1155.6	1149.8	1149.8	1156.7	1153.3
32.5°	1104.7	1100.1	1102.4	1104.7	1105.9
35°	1058.5	1050.4	1053.9	1050.4	1051.6
37.5°	1004.2	998.4	997.3	996.1	996.1
40°	953.4	948.7	944.1	944.1	938.3
42.5°	897.9	892.1	889.8	886.3	882.9
45°	840.1	833.2	832.0	828.6	828.6
47.5°	788.1	777.7	776.6	769.6	769.6
50°	729.2	722.2	717.6	713.0	709.5
52.5°	676.0	669.1	662.2	657.5	654.1
55°	615.9	607.8	606.7	600.9	600.9
57.5°	561.6	554.7	550.1	543.1	544.3
60°	505.0	498.1	495.7	490.0	490.0
62.5°	451.8	446.1	442.6	436.8	432.2
65°	403.3	395.2	388.3	383.7	384.8
67.5°	350.1	340.9	337.4	332.8	329.3
70°	299.3	293.5	287.7	282.0	282.0
72.5°	251.9	246.1	242.7	235.7	233.4
75°	208.0	201.1	195.3	190.7	187.2
77.5°	164.1	157.2	153.7	147.9	147.9
80°	122.5	117.9	114.4	112.1	107.5
82.5°	84.4	82.0	78.6	75.1	71.6
85°	49.7	48.5	46.2	40.4	39.3
87.5°	19.6	19.6	17.3	16.2	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)