

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: P296450

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

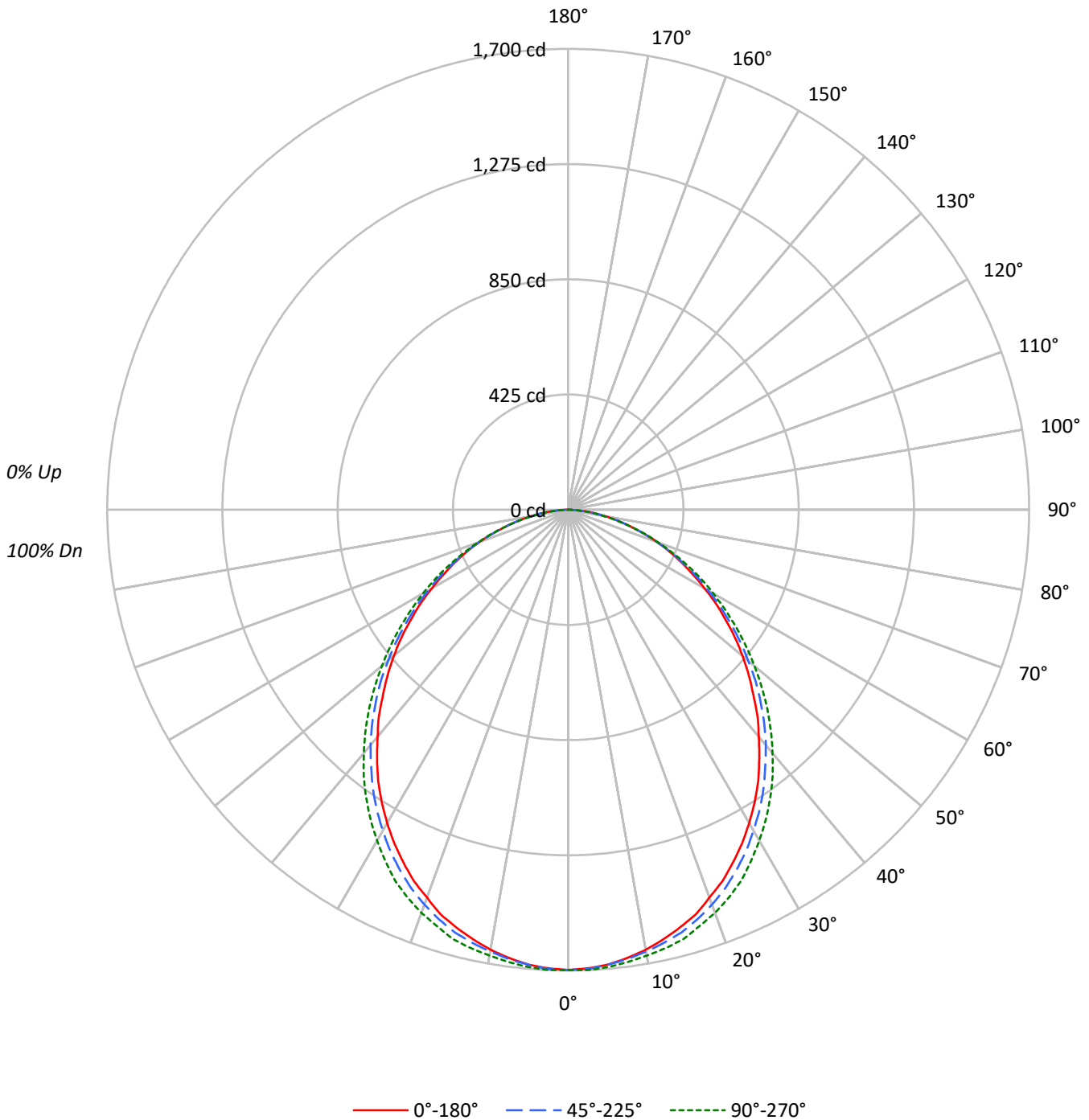
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4568	4568	4568
5°	4551	4551	4574
10°	4505	4522	4563
15°	4444	4498	4569
20°	4360	4440	4531
25°	4267	4356	4483
30°	4147	4247	4379
35°	4013	4125	4265
40°	3841	3983	4118
45°	3673	3820	3949
50°	3513	3630	3755
55°	3326	3426	3547
60°	3126	3207	3321
65°	2937	2991	3086
70°	2739	2739	2789
75°	2442	2442	2442
80°	2151	2084	2084
85°	1714	1649	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.7
10°-20°	455.2	10.6
20°-30°	676.2	15.8
30°-40°	784.8	18.3
40°-50°	772.7	18.0
50°-60°	653.9	15.3
60°-70°	466.3	10.9
70°-80°	250.6	5.9
80°-90°	63.2	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°	1291.5	30.2
0°-40°	2076.2	48.5
0°-60°	3502.9	81.8
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1685	1685	1685	1691	1693	160
15°	1595	1600	1614	1629	1640	450
25°	1437	1441	1467	1495	1510	661
35°	1222	1224	1256	1286	1298	762
45°	965	972	1004	1027	1038	746
55°	709	711	730	750	756	635
65°	461	461	470	478	485	458
75°	235	233	235	235	235	252
85°	56	53	53	49	49	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.7	1697.7	1697.7	1697.7	1697.7
2.5°	1693.4	1693.4	1695.6	1697.7	1699.8
5°	1684.9	1684.9	1684.9	1691.3	1693.4
7.5°	1667.8	1669.9	1672.1	1678.5	1682.7
10°	1648.6	1650.7	1655.0	1665.7	1669.9
12.5°	1622.9	1629.4	1635.8	1650.7	1657.1
15°	1595.2	1599.5	1614.4	1629.4	1640.0
17.5°	1565.3	1567.4	1584.5	1605.9	1610.1
20°	1522.6	1529.0	1550.3	1571.7	1582.4
22.5°	1484.1	1488.4	1511.9	1539.7	1548.2
25°	1437.2	1441.4	1467.1	1494.8	1509.8
27.5°	1388.0	1392.3	1420.1	1450.0	1460.7
30°	1334.7	1338.9	1366.7	1398.7	1409.4
32.5°	1279.1	1283.4	1313.3	1341.1	1356.0
35°	1221.5	1223.6	1255.6	1285.5	1298.4
37.5°	1157.4	1163.8	1193.7	1223.6	1238.6
40°	1093.4	1099.8	1133.9	1161.7	1172.4
42.5°	1033.6	1042.1	1069.9	1095.5	1106.2
45°	965.2	971.6	1003.7	1027.2	1037.8
47.5°	903.3	909.7	937.5	961.0	967.4
50°	839.2	843.5	867.0	888.3	896.9
52.5°	775.2	777.3	798.7	820.0	826.4
55°	709.0	711.1	730.3	749.5	756.0
57.5°	647.0	647.0	664.1	679.1	685.5
60°	580.8	580.8	595.8	610.7	617.1
62.5°	518.9	518.9	533.9	544.5	553.1
65°	461.3	461.3	469.8	478.3	484.7
67.5°	405.7	399.3	407.9	418.5	416.4
70°	348.1	341.7	348.1	352.4	354.5
72.5°	290.4	286.2	290.4	292.6	296.8
75°	234.9	232.8	234.9	234.9	234.9
77.5°	187.9	181.5	185.8	183.6	181.5
80°	138.8	136.7	134.5	132.4	134.5
82.5°	96.1	94.0	94.0	89.7	89.7
85°	55.5	53.4	53.4	49.1	49.1
87.5°	21.4	21.4	19.2	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)