

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: P296448

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296448
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-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

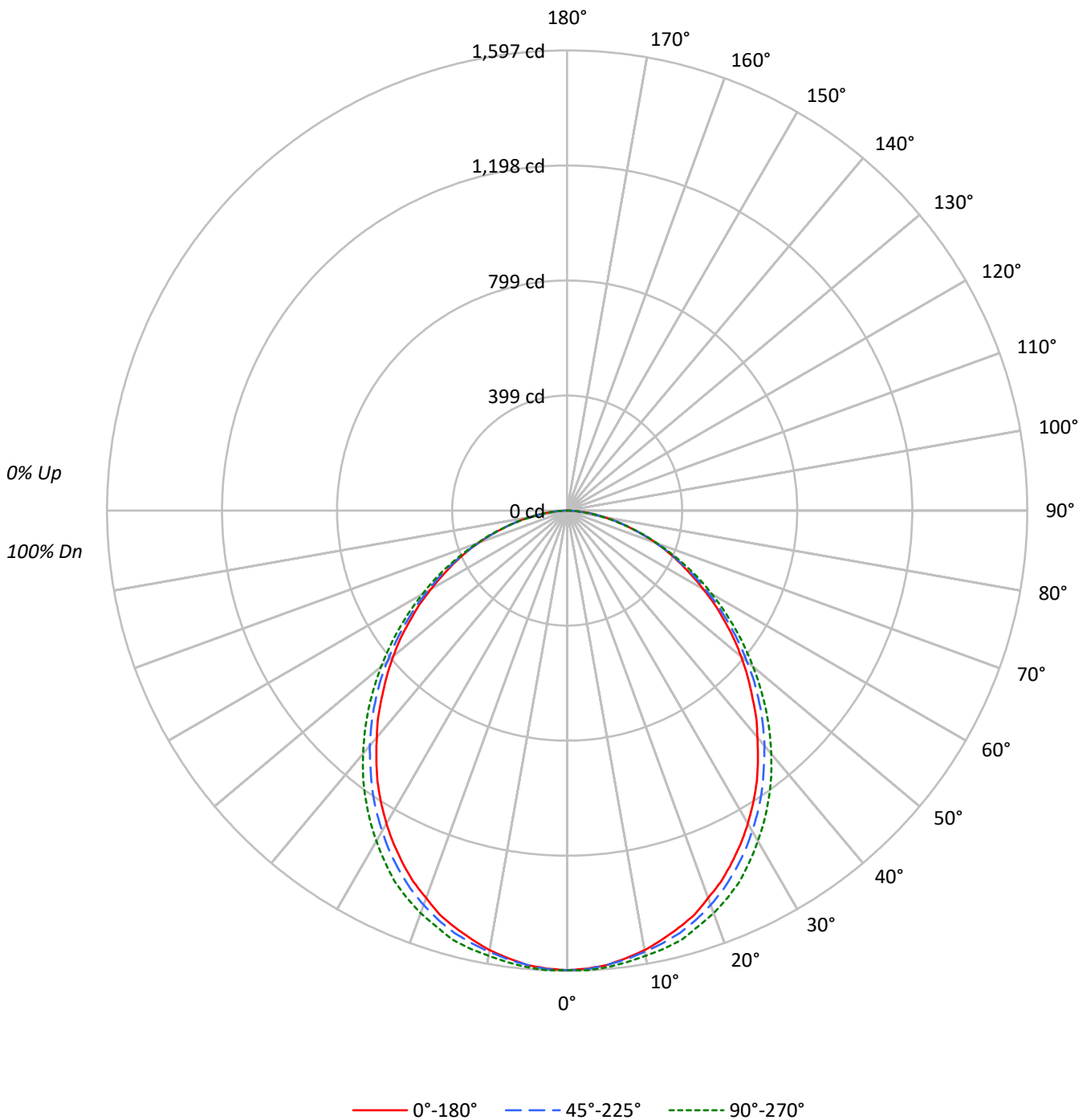
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4292	4292	4292
5°	4276	4276	4298
10°	4232	4249	4287
15°	4175	4226	4293
20°	4096	4171	4257
25°	4009	4092	4212
30°	3897	3990	4115
35°	3770	3875	4007
40°	3608	3743	3869
45°	3451	3589	3711
50°	3301	3410	3528
55°	3125	3219	3332
60°	2937	3013	3120
65°	2760	2811	2900
70°	2573	2573	2620
75°	2295	2295	2295
80°	2021	1959	1959
85°	1612	1550	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.7
10°-20°	427.7	10.6
20°-30°	635.3	15.8
30°-40°	737.3	18.3
40°-50°	726.0	18.0
50°-60°	614.4	15.3
60°-70°	438.1	10.9
70°-80°	235.4	5.9
80°-90°	59.4	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°	1213.4	30.2
0°-40°	1950.7	48.5
0°-60°	3291.1	81.8
0°-90°	4024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1583	1583	1583	1589	1591	150
15°	1499	1503	1517	1531	1541	422
25°	1350	1354	1378	1404	1418	621
35°	1148	1150	1180	1208	1220	716
45°	907	913	943	965	975	701
55°	666	668	686	704	710	597
65°	433	433	441	449	455	430
75°	221	219	221	221	221	237
85°	52	50	50	46	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.0	1595.0	1595.0	1595.0	1595.0
2.5°	1591.0	1591.0	1593.0	1595.0	1597.0
5°	1583.0	1583.0	1583.0	1589.0	1591.0
7.5°	1566.9	1568.9	1570.9	1577.0	1581.0
10°	1548.9	1550.9	1554.9	1564.9	1568.9
12.5°	1524.8	1530.8	1536.8	1550.9	1556.9
15°	1498.7	1502.7	1516.8	1530.8	1540.9
17.5°	1470.6	1472.6	1488.7	1508.8	1512.8
20°	1430.5	1436.5	1456.6	1476.7	1486.7
22.5°	1394.4	1398.4	1420.5	1446.6	1454.6
25°	1350.3	1354.3	1378.3	1404.4	1418.5
27.5°	1304.1	1308.1	1334.2	1362.3	1372.3
30°	1254.0	1258.0	1284.0	1314.1	1324.2
32.5°	1201.8	1205.8	1233.9	1260.0	1274.0
35°	1147.6	1149.6	1179.7	1207.8	1219.8
37.5°	1087.4	1093.4	1121.5	1149.6	1163.7
40°	1027.2	1033.3	1065.4	1091.4	1101.5
42.5°	971.1	979.1	1005.2	1029.2	1039.3
45°	906.9	912.9	943.0	965.0	975.1
47.5°	848.7	854.7	880.8	902.8	908.9
50°	788.5	792.5	814.6	834.6	842.7
52.5°	728.3	730.3	750.4	770.4	776.4
55°	666.1	668.1	686.2	704.2	710.2
57.5°	607.9	607.9	624.0	638.0	644.0
60°	545.7	545.7	559.8	573.8	579.8
62.5°	487.5	487.5	501.6	511.6	519.6
65°	433.4	433.4	441.4	449.4	455.4
67.5°	381.2	375.2	383.2	393.2	391.2
70°	327.0	321.0	327.0	331.0	333.0
72.5°	272.9	268.8	272.9	274.9	278.9
75°	220.7	218.7	220.7	220.7	220.7
77.5°	176.6	170.5	174.5	172.5	170.5
80°	130.4	128.4	126.4	124.4	126.4
82.5°	90.3	88.3	88.3	84.3	84.3
85°	52.2	50.2	50.2	46.1	46.1
87.5°	20.1	20.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)