

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: P296449

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296449
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

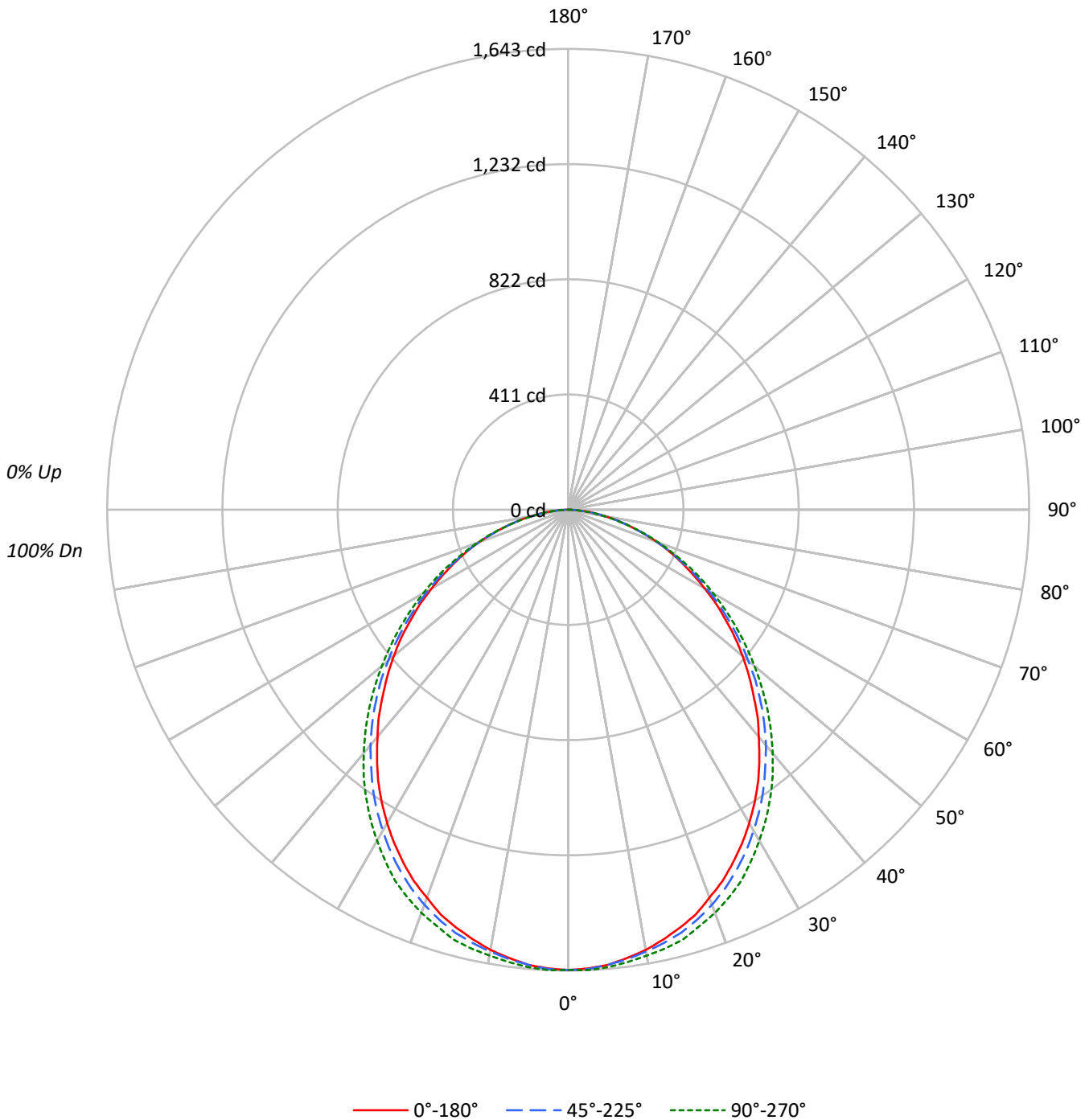
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4416	4416	4416
5°	4399	4399	4422
10°	4354	4371	4411
15°	4296	4347	4416
20°	4214	4292	4380
25°	4125	4211	4333
30°	4009	4105	4233
35°	3879	3987	4123
40°	3712	3850	3981
45°	3551	3692	3818
50°	3396	3508	3629
55°	3215	3312	3428
60°	3022	3099	3210
65°	2839	2891	2984
70°	2648	2648	2696
75°	2361	2361	2361
80°	2080	2015	2015
85°	1658	1593	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.7
10°-20°	440.0	10.6
20°-30°	653.6	15.8
30°-40°	758.6	18.3
40°-50°	746.9	18.0
50°-60°	632.1	15.3
60°-70°	450.8	10.9
70°-80°	242.3	5.9
80°-90°	61.1	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°	1248.4	30.2
0°-40°	2006.9	48.5
0°-60°	3385.9	81.8
0°-90°	4140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1629	1629	1629	1635	1637	154
15°	1542	1546	1560	1575	1585	435
25°	1389	1393	1418	1445	1459	639
35°	1181	1183	1214	1243	1255	737
45°	933	939	970	993	1003	721
55°	685	687	706	724	731	614
65°	446	446	454	462	469	442
75°	227	225	227	227	227	244
85°	54	52	52	48	48	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.0	1641.0	1641.0	1641.0	1641.0
2.5°	1636.9	1636.9	1638.9	1641.0	1643.1
5°	1628.6	1628.6	1628.6	1634.8	1636.9
7.5°	1612.1	1614.2	1616.2	1622.4	1626.6
10°	1593.5	1595.6	1599.7	1610.0	1614.2
12.5°	1568.8	1575.0	1581.1	1595.6	1601.8
15°	1541.9	1546.1	1560.5	1575.0	1585.3
17.5°	1513.0	1515.1	1531.6	1552.2	1556.4
20°	1471.7	1477.9	1498.6	1519.2	1529.5
22.5°	1434.6	1438.7	1461.4	1488.3	1496.5
25°	1389.2	1393.3	1418.1	1444.9	1459.4
27.5°	1341.7	1345.8	1372.7	1401.6	1411.9
30°	1290.1	1294.2	1321.1	1352.0	1362.3
32.5°	1236.4	1240.6	1269.5	1296.3	1310.7
35°	1180.7	1182.8	1213.7	1242.6	1255.0
37.5°	1118.8	1125.0	1153.9	1182.8	1197.2
40°	1056.8	1063.0	1096.1	1122.9	1133.2
42.5°	999.1	1007.3	1034.1	1058.9	1069.2
45°	933.0	939.2	970.2	992.9	1003.2
47.5°	873.1	879.3	906.2	928.9	935.1
50°	811.2	815.3	838.0	858.7	866.9
52.5°	749.3	751.4	772.0	792.6	798.8
55°	685.3	687.4	705.9	724.5	730.7
57.5°	625.4	625.4	642.0	656.4	662.6
60°	561.5	561.5	575.9	590.3	596.5
62.5°	501.6	501.6	516.0	526.4	534.6
65°	445.9	445.9	454.1	462.4	468.6
67.5°	392.2	386.0	394.3	404.6	402.5
70°	336.5	330.3	336.5	340.6	342.7
72.5°	280.7	276.6	280.7	282.8	286.9
75°	227.1	225.0	227.1	227.1	227.1
77.5°	181.6	175.5	179.6	177.5	175.5
80°	134.2	132.1	130.0	128.0	130.0
82.5°	92.9	90.8	90.8	86.7	86.7
85°	53.7	51.6	51.6	47.5	47.5
87.5°	20.6	20.6	18.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)