

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: P296539

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296539
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-L92765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4134.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

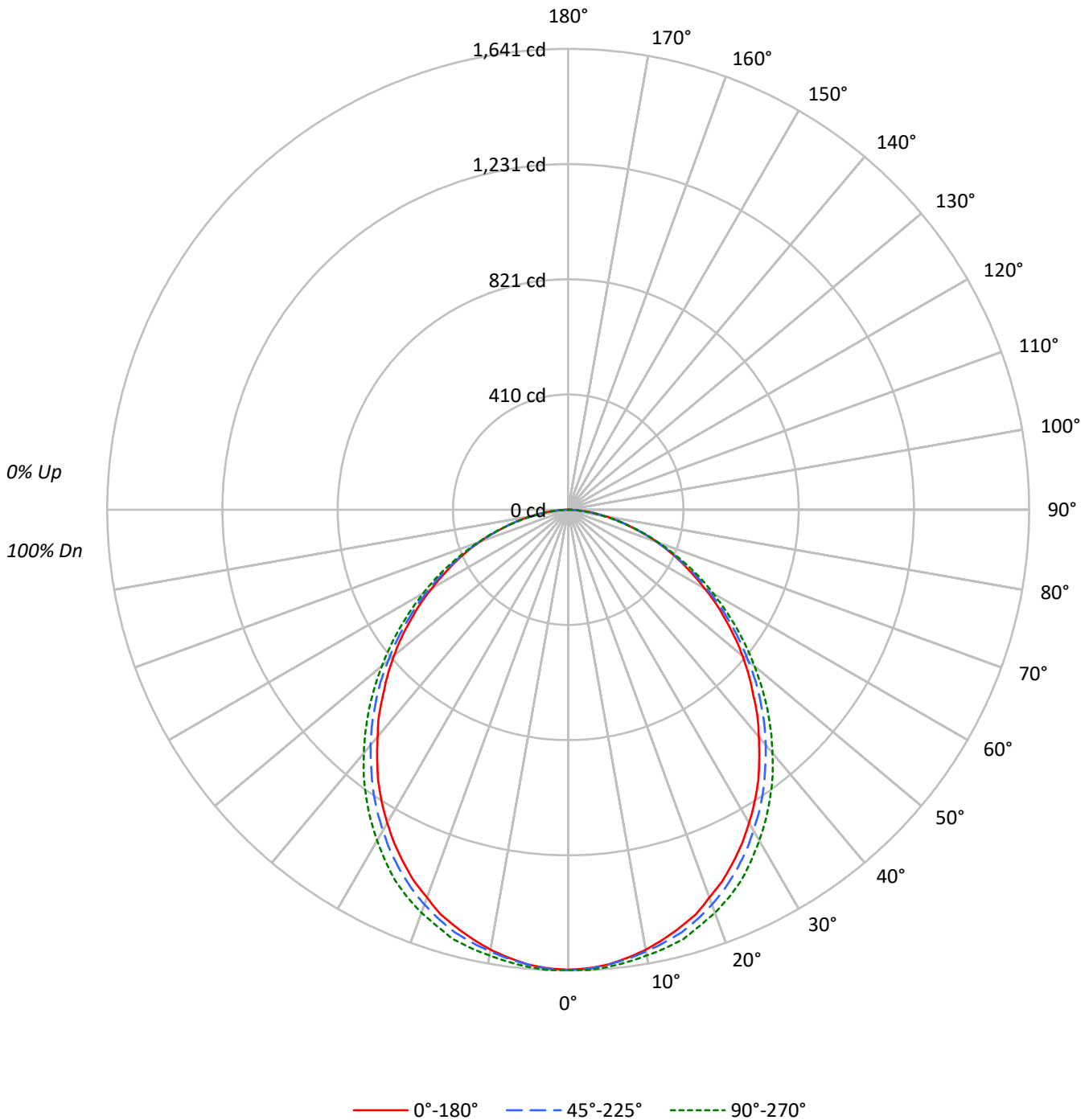
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4409	4409	4409
5°	4393	4393	4415
10°	4348	4365	4404
15°	4289	4341	4410
20°	4208	4285	4374
25°	4119	4204	4327
30°	4003	4099	4227
35°	3873	3982	4117
40°	3707	3845	3975
45°	3545	3687	3812
50°	3391	3503	3624
55°	3210	3307	3423
60°	3017	3095	3206
65°	2835	2888	2979
70°	2644	2644	2692
75°	2357	2357	2357
80°	2077	2013	2013
85°	1655	1590	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.7
10°-20°	439.4	10.6
20°-30°	652.7	15.8
30°-40°	757.5	18.3
40°-50°	745.8	18.0
50°-60°	631.2	15.3
60°-70°	450.1	10.9
70°-80°	241.9	5.9
80°-90°	61.0	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°	1246.6	30.2
0°-40°	2004.0	48.5
0°-60°	3381.0	81.8
0°-90°	4134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1626	1626	1626	1632	1634	154
15°	1540	1544	1558	1573	1583	434
25°	1387	1391	1416	1443	1457	638
35°	1179	1181	1212	1241	1253	736
45°	932	938	969	991	1002	720
55°	684	686	705	724	730	613
65°	445	445	454	462	468	442
75°	227	225	227	227	227	243
85°	54	52	52	47	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1634.5	1634.5	1636.6	1638.6	1640.7
5°	1626.3	1626.3	1626.3	1632.4	1634.5
7.5°	1609.8	1611.8	1613.9	1620.1	1624.2
10°	1591.2	1593.3	1597.4	1607.7	1611.8
12.5°	1566.5	1572.7	1578.9	1593.3	1599.5
15°	1539.7	1543.8	1558.2	1572.7	1583.0
17.5°	1510.8	1512.9	1529.4	1550.0	1554.1
20°	1469.6	1475.8	1496.4	1517.0	1527.3
22.5°	1432.5	1436.6	1459.3	1486.1	1494.3
25°	1387.2	1391.3	1416.0	1442.8	1457.2
27.5°	1339.8	1343.9	1370.7	1399.5	1409.8
30°	1288.2	1292.4	1319.1	1350.1	1360.4
32.5°	1234.6	1238.8	1267.6	1294.4	1308.8
35°	1179.0	1181.0	1212.0	1240.8	1253.2
37.5°	1117.2	1123.3	1152.2	1181.0	1195.5
40°	1055.3	1061.5	1094.5	1121.3	1131.6
42.5°	997.6	1005.8	1032.6	1057.4	1067.7
45°	931.6	937.8	968.7	991.4	1001.7
47.5°	871.9	878.1	904.9	927.5	933.7
50°	810.0	814.2	836.8	857.4	865.7
52.5°	748.2	750.3	770.9	791.5	797.7
55°	684.3	686.4	704.9	723.5	729.7
57.5°	624.5	624.5	641.0	655.5	661.6
60°	560.6	560.6	575.1	589.5	595.7
62.5°	500.9	500.9	515.3	525.6	533.8
65°	445.2	445.2	453.5	461.7	467.9
67.5°	391.6	385.4	393.7	404.0	401.9
70°	336.0	329.8	336.0	340.1	342.2
72.5°	280.3	276.2	280.3	282.4	286.5
75°	226.7	224.7	226.7	226.7	226.7
77.5°	181.4	175.2	179.3	177.3	175.2
80°	134.0	131.9	129.9	127.8	129.9
82.5°	92.8	90.7	90.7	86.6	86.6
85°	53.6	51.5	51.5	47.4	47.4
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)