

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: P296453

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296453
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

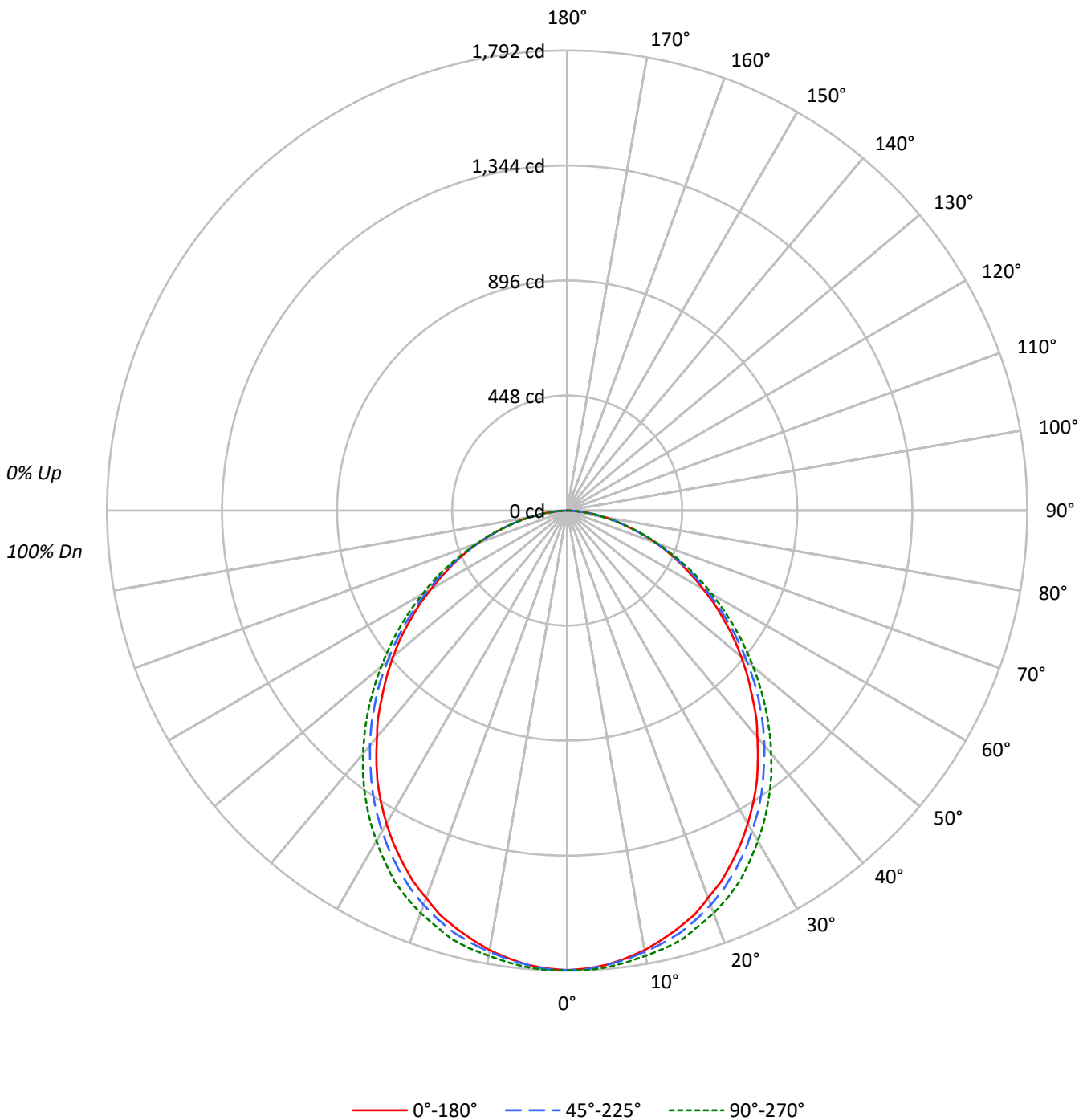
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4816	4816	4816
5°	4798	4798	4822
10°	4749	4767	4810
15°	4685	4741	4817
20°	4596	4680	4777
25°	4498	4592	4725
30°	4372	4477	4616
35°	4230	4348	4496
40°	4049	4199	4341
45°	3872	4026	4163
50°	3704	3826	3958
55°	3506	3612	3739
60°	3295	3380	3502
65°	3096	3153	3254
70°	2887	2887	2940
75°	2574	2574	2574
80°	2267	2197	2197
85°	1806	1738	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	3.7
10°-20°	479.8	10.6
20°-30°	712.8	15.8
30°-40°	827.3	18.3
40°-50°	814.6	18.0
50°-60°	689.3	15.3
60°-70°	491.6	10.9
70°-80°	264.2	5.9
80°-90°	66.6	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°	1361.4	30.2
0°-40°	2188.7	48.5
0°-60°	3692.6	81.8
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1776	1776	1776	1783	1785	168
15°	1682	1686	1702	1718	1729	474
25°	1515	1520	1546	1576	1592	697
35°	1288	1290	1324	1355	1369	803
45°	1018	1024	1058	1083	1094	787
55°	747	750	770	790	797	669
65°	486	486	495	504	511	482
75°	248	245	248	248	248	266
85°	58	56	56	52	52	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.6	1789.6	1789.6	1789.6	1789.6
2.5°	1785.1	1785.1	1787.4	1789.6	1791.9
5°	1776.1	1776.1	1776.1	1782.9	1785.1
7.5°	1758.1	1760.4	1762.6	1769.4	1773.9
10°	1737.9	1740.1	1744.6	1755.9	1760.4
12.5°	1710.9	1717.6	1724.4	1740.1	1746.9
15°	1681.6	1686.1	1701.9	1717.6	1728.9
17.5°	1650.1	1652.3	1670.3	1692.8	1697.4
20°	1605.1	1611.8	1634.3	1656.8	1668.1
22.5°	1564.5	1569.0	1593.8	1623.1	1632.1
25°	1515.0	1519.5	1546.5	1575.8	1591.5
27.5°	1463.2	1467.7	1497.0	1528.5	1539.8
30°	1407.0	1411.5	1440.7	1474.5	1485.7
32.5°	1348.4	1352.9	1384.4	1413.7	1429.5
35°	1287.6	1289.9	1323.7	1355.2	1368.7
37.5°	1220.1	1226.9	1258.4	1289.9	1305.7
40°	1152.6	1159.3	1195.3	1224.6	1235.9
42.5°	1089.5	1098.6	1127.8	1154.8	1166.1
45°	1017.5	1024.3	1058.0	1082.8	1094.0
47.5°	952.2	959.0	988.2	1013.0	1019.8
50°	884.7	889.2	914.0	936.5	945.5
52.5°	817.2	819.4	841.9	864.4	871.2
55°	747.4	749.6	769.9	790.1	796.9
57.5°	682.1	682.1	700.1	715.9	722.6
60°	612.3	612.3	628.1	643.8	650.6
62.5°	547.0	547.0	562.8	574.0	583.0
65°	486.2	486.2	495.2	504.3	511.0
67.5°	427.7	421.0	430.0	441.2	439.0
70°	366.9	360.2	366.9	371.4	373.7
72.5°	306.2	301.7	306.2	308.4	312.9
75°	247.6	245.4	247.6	247.6	247.6
77.5°	198.1	191.3	195.8	193.6	191.3
80°	146.3	144.1	141.8	139.6	141.8
82.5°	101.3	99.0	99.0	94.5	94.5
85°	58.5	56.3	56.3	51.8	51.8
87.5°	22.5	22.5	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)