

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: P296399

Luminaire Tested: **22RLN-LD5-44-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296399
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-L83050-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: 4385.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

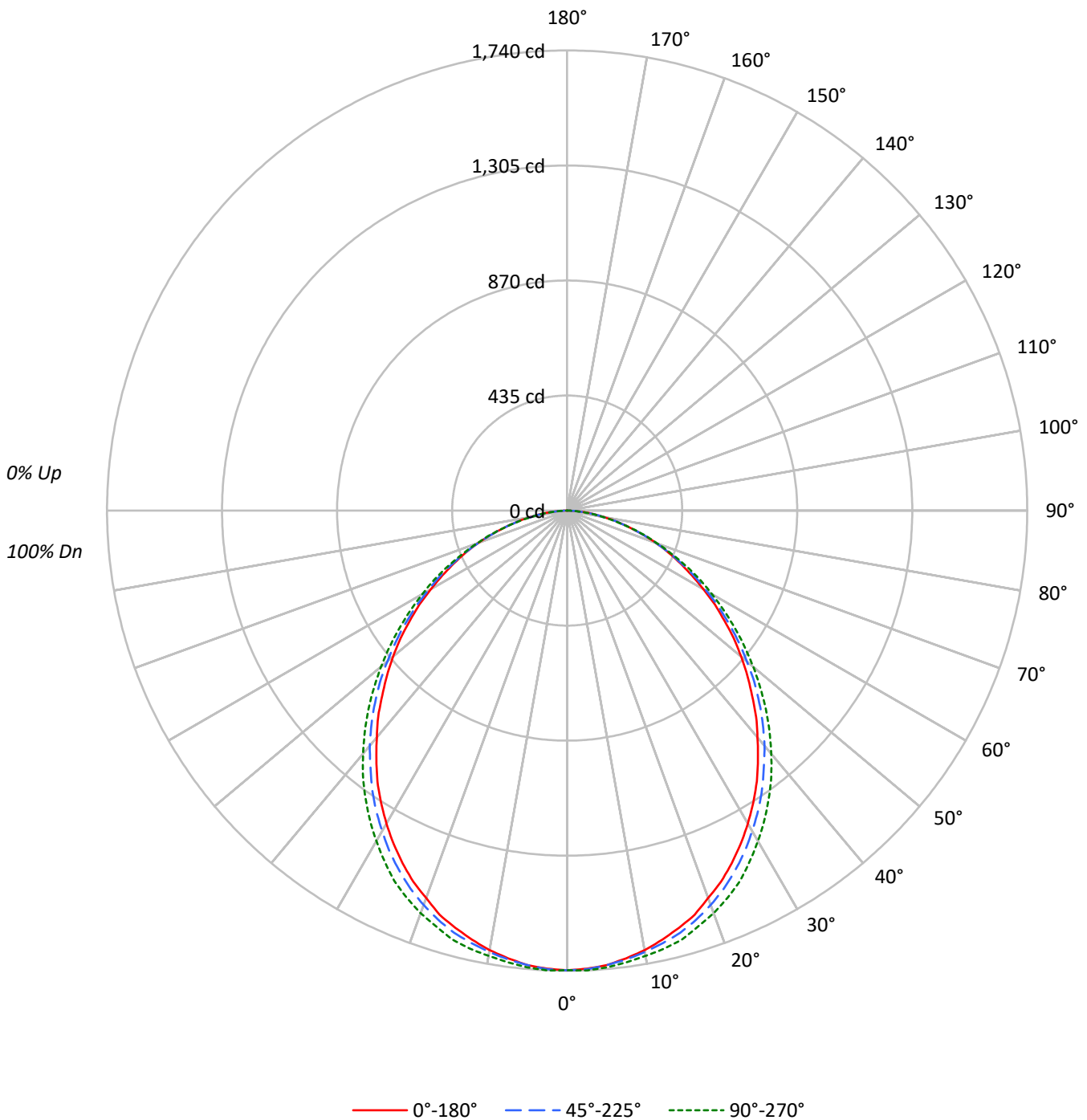
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4677	4677	4677
5°	4660	4660	4683
10°	4612	4630	4672
15°	4550	4605	4678
20°	4464	4546	4639
25°	4369	4460	4589
30°	4246	4348	4484
35°	4108	4223	4367
40°	3932	4078	4216
45°	3761	3911	4043
50°	3597	3716	3844
55°	3406	3508	3631
60°	3201	3283	3400
65°	3007	3063	3160
70°	2804	2804	2855
75°	2501	2501	2501
80°	2202	2134	2134
85°	1754	1689	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.7
10°-20°	466.0	10.6
20°-30°	692.3	15.8
30°-40°	803.5	18.3
40°-50°	791.1	18.0
50°-60°	669.5	15.3
60°-70°	477.5	10.9
70°-80°	256.6	5.9
80°-90°	64.7	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°	1322.2	30.2
0°-40°	2125.7	48.5
0°-60°	3586.3	81.8
0°-90°	4385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1725	1725	1725	1732	1734	163
15°	1633	1638	1653	1668	1679	460
25°	1471	1476	1502	1530	1546	677
35°	1251	1253	1286	1316	1329	780
45°	988	995	1028	1052	1062	764
55°	726	728	748	767	774	650
65°	472	472	481	490	496	469
75°	240	238	240	240	240	258
85°	57	55	55	50	50	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1733.7	1733.7	1735.9	1738.1	1740.3
5°	1725.0	1725.0	1725.0	1731.6	1733.7
7.5°	1707.5	1709.7	1711.9	1718.4	1722.8
10°	1687.8	1690.0	1694.4	1705.3	1709.7
12.5°	1661.6	1668.2	1674.7	1690.0	1696.6
15°	1633.2	1637.5	1652.9	1668.2	1679.1
17.5°	1602.6	1604.8	1622.2	1644.1	1648.5
20°	1558.8	1565.4	1587.3	1609.1	1620.1
22.5°	1519.5	1523.9	1547.9	1576.3	1585.1
25°	1471.4	1475.8	1502.0	1530.4	1545.7
27.5°	1421.1	1425.5	1453.9	1484.5	1495.4
30°	1366.4	1370.8	1399.2	1432.0	1443.0
32.5°	1309.6	1314.0	1344.6	1373.0	1388.3
35°	1250.6	1252.8	1285.6	1316.2	1329.3
37.5°	1185.0	1191.5	1222.1	1252.8	1268.1
40°	1119.4	1126.0	1160.9	1189.4	1200.3
42.5°	1058.2	1066.9	1095.3	1121.6	1132.5
45°	988.2	994.8	1027.6	1051.6	1062.5
47.5°	924.8	931.4	959.8	983.8	990.4
50°	859.2	863.6	887.6	909.5	918.3
52.5°	793.6	795.8	817.7	839.5	846.1
55°	725.9	728.0	747.7	767.4	774.0
57.5°	662.5	662.5	679.9	695.2	701.8
60°	594.7	594.7	610.0	625.3	631.8
62.5°	531.3	531.3	546.6	557.5	566.3
65°	472.2	472.2	481.0	489.7	496.3
67.5°	415.4	408.8	417.6	428.5	426.3
70°	356.4	349.8	356.4	360.7	362.9
72.5°	297.3	293.0	297.3	299.5	303.9
75°	240.5	238.3	240.5	240.5	240.5
77.5°	192.4	185.8	190.2	188.0	185.8
80°	142.1	139.9	137.7	135.6	137.7
82.5°	98.4	96.2	96.2	91.8	91.8
85°	56.8	54.7	54.7	50.3	50.3
87.5°	21.9	21.9	19.7	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)