

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: P296486

Luminaire Tested: **22RLN-LD5-44-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296486
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-L93050-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

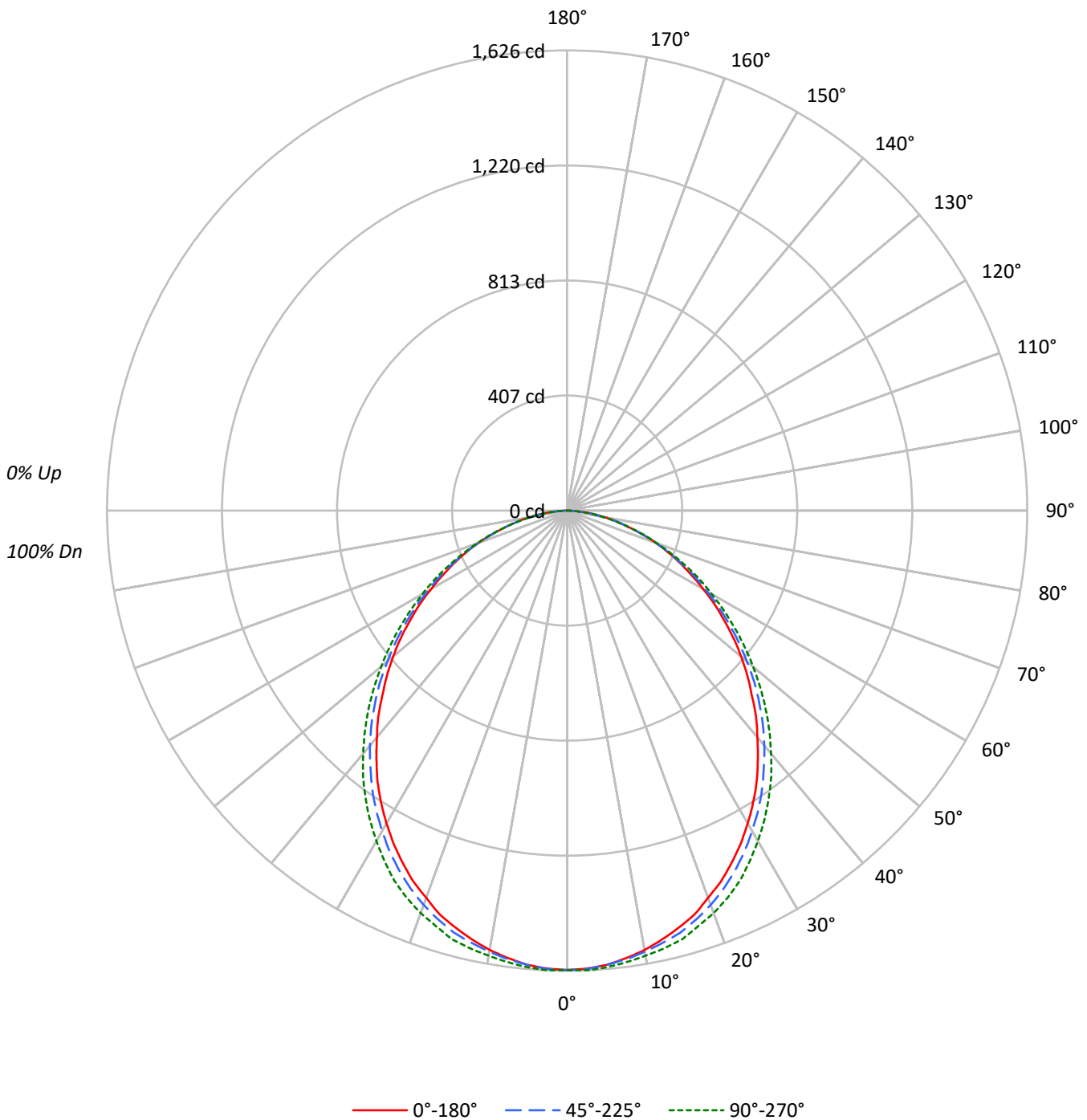
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4369	4369	4369
5°	4353	4353	4375
10°	4308	4325	4364
15°	4250	4301	4369
20°	4170	4246	4334
25°	4081	4166	4287
30°	3966	4061	4188
35°	3837	3945	4079
40°	3673	3809	3939
45°	3513	3653	3777
50°	3360	3471	3591
55°	3181	3277	3392
60°	2990	3067	3176
65°	2809	2861	2952
70°	2619	2619	2667
75°	2335	2335	2335
80°	2056	1994	1994
85°	1639	1578	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.7
10°-20°	435.3	10.6
20°-30°	646.7	15.8
30°-40°	750.5	18.3
40°-50°	739.0	18.0
50°-60°	625.4	15.3
60°-70°	446.0	10.9
70°-80°	239.7	5.9
80°-90°	60.4	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°	1235.1	30.2
0°-40°	1985.6	48.5
0°-60°	3349.9	81.8
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1611	1611	1611	1617	1620	153
15°	1526	1530	1544	1558	1568	430
25°	1374	1378	1403	1430	1444	633
35°	1168	1170	1201	1229	1242	729
45°	923	929	960	982	992	714
55°	678	680	698	717	723	607
65°	441	441	449	458	464	438
75°	225	223	225	225	225	241
85°	53	51	51	47	47	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.6	1623.6	1623.6	1623.6	1623.6
2.5°	1619.5	1619.5	1621.5	1623.6	1625.6
5°	1611.3	1611.3	1611.3	1617.4	1619.5
7.5°	1595.0	1597.0	1599.1	1605.2	1609.3
10°	1576.6	1578.6	1582.7	1592.9	1597.0
12.5°	1552.1	1558.2	1564.3	1578.6	1584.8
15°	1525.5	1529.6	1543.9	1558.2	1568.4
17.5°	1496.9	1499.0	1515.3	1535.7	1539.8
20°	1456.1	1462.2	1482.7	1503.1	1513.3
22.5°	1419.3	1423.4	1445.9	1472.4	1480.6
25°	1374.4	1378.5	1403.0	1429.6	1443.8
27.5°	1327.4	1331.5	1358.1	1386.7	1396.9
30°	1276.4	1280.5	1307.0	1337.7	1347.9
32.5°	1223.3	1227.4	1256.0	1282.5	1296.8
35°	1168.1	1170.2	1200.8	1229.4	1241.7
37.5°	1106.9	1113.0	1141.6	1170.2	1184.5
40°	1045.6	1051.7	1084.4	1111.0	1121.2
42.5°	988.4	996.6	1023.2	1047.7	1057.9
45°	923.1	929.2	959.8	982.3	992.5
47.5°	863.9	870.0	896.5	919.0	925.1
50°	802.6	806.7	829.1	849.6	857.7
52.5°	741.3	743.4	763.8	784.2	790.3
55°	678.0	680.1	698.4	716.8	722.9
57.5°	618.8	618.8	635.1	649.4	655.6
60°	555.5	555.5	569.8	584.1	590.2
62.5°	496.3	496.3	510.6	520.8	528.9
65°	441.1	441.1	449.3	457.5	463.6
67.5°	388.0	381.9	390.1	400.3	398.2
70°	332.9	326.8	332.9	337.0	339.0
72.5°	277.7	273.7	277.7	279.8	283.9
75°	224.6	222.6	224.6	224.6	224.6
77.5°	179.7	173.6	177.7	175.6	173.6
80°	132.7	130.7	128.7	126.6	128.7
82.5°	91.9	89.9	89.9	85.8	85.8
85°	53.1	51.1	51.1	47.0	47.0
87.5°	20.4	20.4	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)