

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: P296530

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296530
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-LD5-40-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: 3775.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

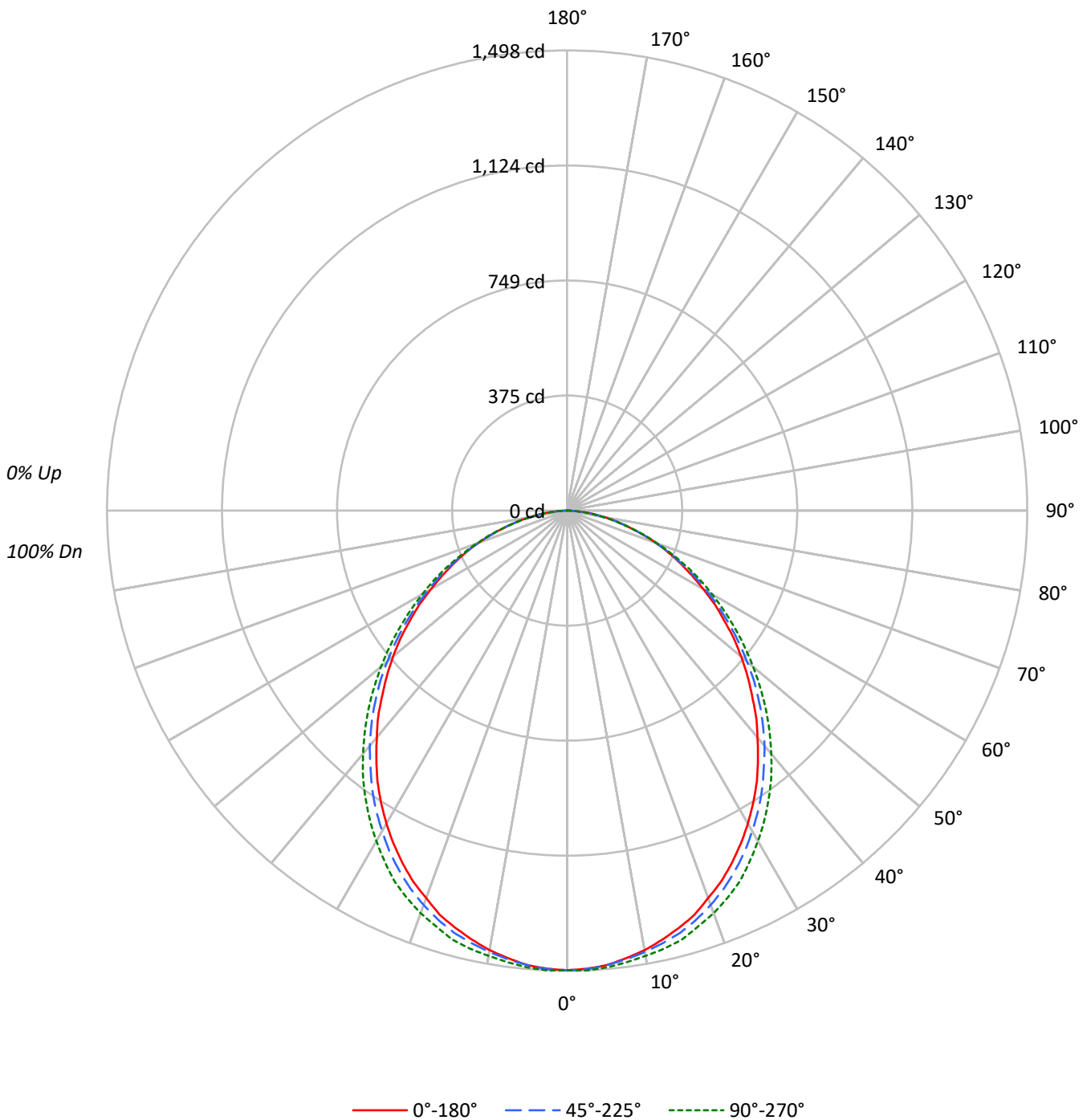
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4027	4027	4027
5°	4011	4011	4032
10°	3970	3986	4022
15°	3917	3964	4027
20°	3843	3913	3994
25°	3761	3839	3951
30°	3655	3743	3860
35°	3537	3636	3759
40°	3385	3511	3630
45°	3237	3366	3481
50°	3097	3199	3309
55°	2932	3020	3126
60°	2756	2826	2927
65°	2588	2637	2721
70°	2414	2414	2458
75°	2152	2152	2152
80°	1895	1838	1838
85°	1510	1454	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.7
10°-20°	401.2	10.6
20°-30°	596.0	15.8
30°-40°	691.7	18.3
40°-50°	681.1	18.0
50°-60°	576.4	15.3
60°-70°	411.0	10.9
70°-80°	220.9	5.9
80°-90°	55.7	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°	1138.3	30.2
0°-40°	1830.0	48.5
0°-60°	3087.4	81.8
0°-90°	3775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1485	1485	1485	1491	1493	141
15°	1406	1410	1423	1436	1446	396
25°	1267	1270	1293	1318	1331	583
35°	1077	1078	1107	1133	1144	672
45°	851	856	885	905	915	658
55°	625	627	644	661	666	560
65°	406	406	414	422	427	403
75°	207	205	207	207	207	222
85°	49	47	47	43	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.3	1496.3	1496.3	1496.3	1496.3
2.5°	1492.6	1492.6	1494.4	1496.3	1498.2
5°	1485.0	1485.0	1485.0	1490.7	1492.6
7.5°	1470.0	1471.9	1473.7	1479.4	1483.2
10°	1453.0	1454.9	1458.7	1468.1	1471.9
12.5°	1430.5	1436.1	1441.7	1454.9	1460.6
15°	1406.0	1409.7	1422.9	1436.1	1445.5
17.5°	1379.6	1381.5	1396.6	1415.4	1419.2
20°	1342.0	1347.6	1366.5	1385.3	1394.7
22.5°	1308.1	1311.9	1332.6	1357.0	1364.6
25°	1266.7	1270.5	1293.1	1317.5	1330.7
27.5°	1223.4	1227.2	1251.6	1278.0	1287.4
30°	1176.4	1180.1	1204.6	1232.8	1242.2
32.5°	1127.4	1131.2	1157.5	1182.0	1195.2
35°	1076.6	1078.5	1106.7	1133.1	1144.4
37.5°	1020.1	1025.8	1052.1	1078.5	1091.7
40°	963.7	969.3	999.4	1023.9	1033.3
42.5°	911.0	918.5	943.0	965.6	975.0
45°	850.7	856.4	884.6	905.3	914.7
47.5°	796.2	801.8	826.3	847.0	852.6
50°	739.7	743.5	764.2	783.0	790.5
52.5°	683.2	685.1	703.9	722.8	728.4
55°	624.9	626.8	643.7	660.6	666.3
57.5°	570.3	570.3	585.4	598.5	604.2
60°	512.0	512.0	525.1	538.3	543.9
62.5°	457.4	457.4	470.5	480.0	487.5
65°	406.5	406.5	414.1	421.6	427.3
67.5°	357.6	352.0	359.5	368.9	367.0
70°	306.8	301.1	306.8	310.6	312.4
72.5°	256.0	252.2	256.0	257.9	261.6
75°	207.0	205.2	207.0	207.0	207.0
77.5°	165.6	160.0	163.7	161.9	160.0
80°	122.3	120.5	118.6	116.7	118.6
82.5°	84.7	82.8	82.8	79.1	79.1
85°	48.9	47.1	47.1	43.3	43.3
87.5°	18.8	18.8	16.9	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)