

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: P296440

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296440
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-L82765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3780.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

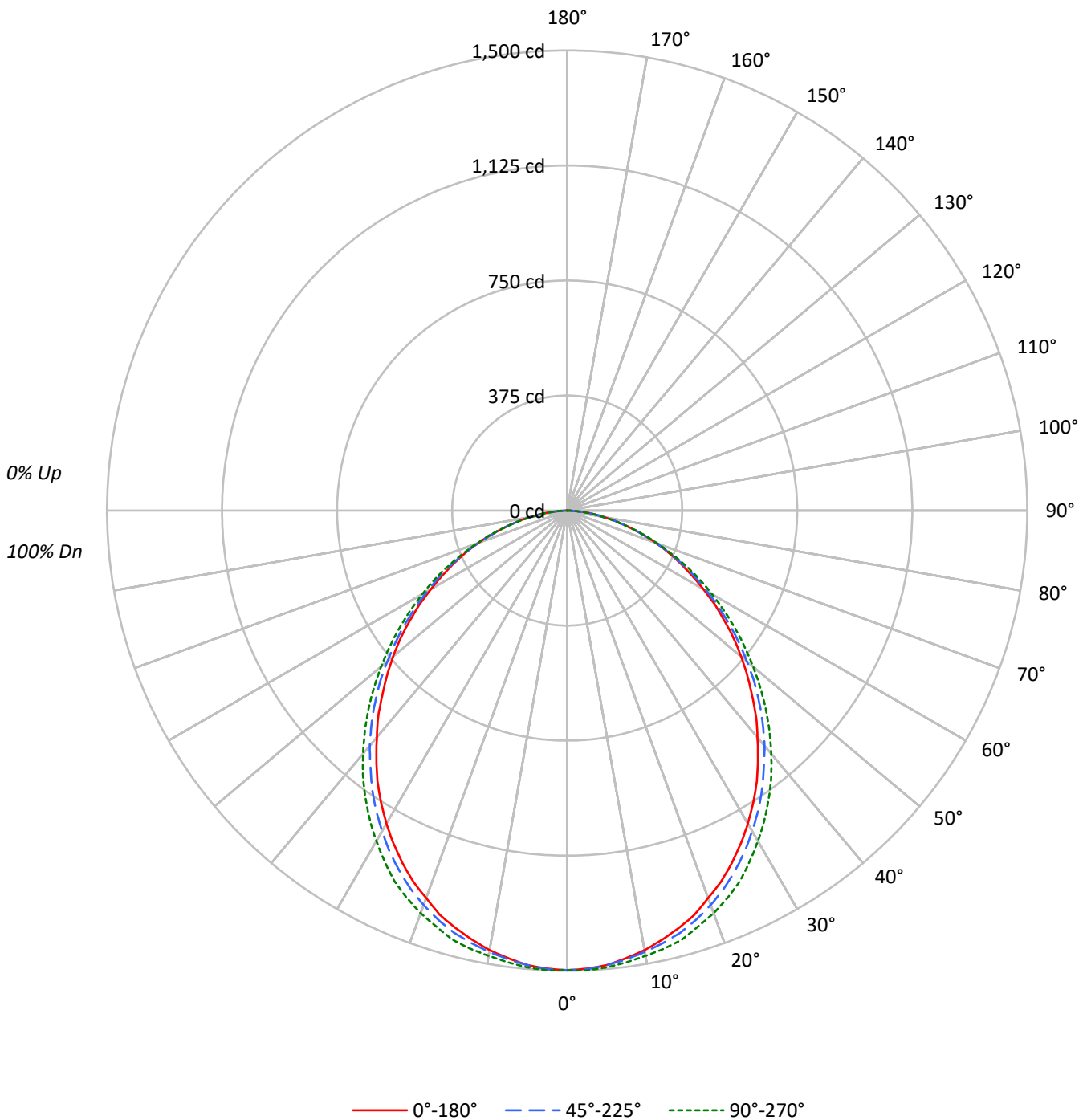
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296440

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296440

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-3000K

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°	4032	4032	4032
5°	4017	4017	4037
10°	3976	3991	4027
15°	3922	3969	4032
20°	3848	3918	3999
25°	3766	3844	3956
30°	3660	3748	3865
35°	3541	3641	3764
40°	3390	3516	3635
45°	3242	3371	3486
50°	3101	3203	3314
55°	2936	3024	3130
60°	2759	2830	2932
65°	2592	2640	2724
70°	2417	2417	2462
75°	2155	2155	2155
80°	1898	1839	1839
85°	1513	1454	1337



TEST NUMBER: P296440

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.7
10°-20°	401.7	10.6
20°-30°	596.8	15.8
30°-40°	692.6	18.3
40°-50°	682.0	18.0
50°-60°	577.1	15.3
60°-70°	411.6	10.9
70°-80°	221.2	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°	1139.8	30.2
0°-40°	1832.4	48.5
0°-60°	3091.5	81.8
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1487	1487	1487	1493	1494	141
15°	1408	1412	1425	1438	1447	397
25°	1268	1272	1295	1319	1332	584
35°	1078	1080	1108	1135	1146	673
45°	852	858	886	906	916	659
55°	626	628	645	662	667	560
65°	407	407	415	422	428	404
75°	207	205	207	207	207	223
85°	49	47	47	43	43	58
90°	0	0	0	0	0	



TEST NUMBER: P296440

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1494.5	1494.5	1496.4	1498.3	1500.2
5°	1487.0	1487.0	1487.0	1492.7	1494.5
7.5°	1471.9	1473.8	1475.7	1481.3	1485.1
10°	1455.0	1456.8	1460.6	1470.0	1473.8
12.5°	1432.3	1438.0	1443.7	1456.8	1462.5
15°	1407.8	1411.6	1424.8	1438.0	1447.4
17.5°	1381.5	1383.3	1398.4	1417.3	1421.0
20°	1343.8	1349.4	1368.3	1387.1	1396.5
22.5°	1309.8	1313.6	1334.3	1358.8	1366.4
25°	1268.4	1272.1	1294.8	1319.3	1332.5
27.5°	1225.0	1228.8	1253.3	1279.7	1289.1
30°	1177.9	1181.7	1206.2	1234.5	1243.9
32.5°	1128.9	1132.7	1159.1	1183.6	1196.8
35°	1078.0	1079.9	1108.2	1134.6	1145.9
37.5°	1021.5	1027.1	1053.5	1079.9	1093.1
40°	964.9	970.6	1000.8	1025.3	1034.7
42.5°	912.2	919.7	944.2	966.8	976.3
45°	851.9	857.5	885.8	906.5	915.9
47.5°	797.2	802.9	827.4	848.1	853.8
50°	740.7	744.4	765.2	784.0	791.6
52.5°	684.1	686.0	704.9	723.7	729.4
55°	625.7	627.6	644.6	661.5	667.2
57.5°	571.1	571.1	586.1	599.3	605.0
60°	512.6	512.6	525.8	539.0	544.7
62.5°	458.0	458.0	471.2	480.6	488.1
65°	407.1	407.1	414.6	422.2	427.8
67.5°	358.1	352.4	360.0	369.4	367.5
70°	307.2	301.5	307.2	311.0	312.9
72.5°	256.3	252.5	256.3	258.2	262.0
75°	207.3	205.4	207.3	207.3	207.3
77.5°	165.9	160.2	164.0	162.1	160.2
80°	122.5	120.6	118.7	116.8	118.7
82.5°	84.8	82.9	82.9	79.2	79.2
85°	49.0	47.1	47.1	43.3	43.3
87.5°	18.8	18.8	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)