

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: P296442

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296442
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-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 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

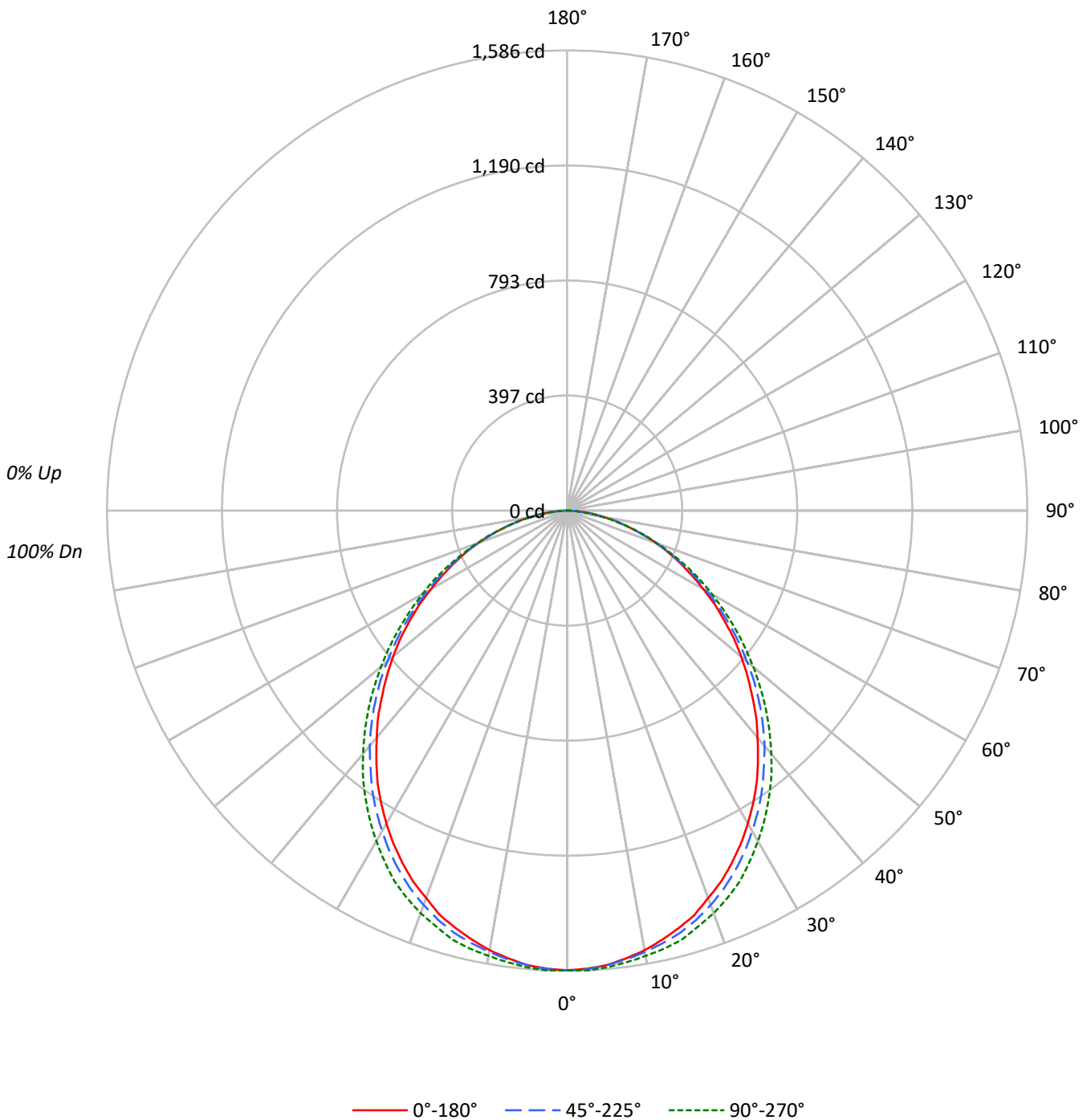
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296442

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P296442

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-4000K

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°	4263	4263	4263
5°	4247	4247	4269
10°	4204	4220	4258
15°	4147	4197	4264
20°	4069	4143	4229
25°	3982	4065	4184
30°	3870	3963	4087
35°	3745	3849	3981
40°	3584	3717	3843
45°	3428	3564	3686
50°	3279	3387	3504
55°	3104	3198	3310
60°	2918	2992	3099
65°	2741	2791	2881
70°	2555	2555	2603
75°	2279	2279	2279
80°	2007	1946	1946
85°	1599	1538	1414



TEST NUMBER: P296442

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.7
10°-20°	424.8	10.6
20°-30°	631.0	15.8
30°-40°	732.4	18.3
40°-50°	721.1	18.0
50°-60°	610.3	15.3
60°-70°	435.2	10.9
70°-80°	233.9	5.9
80°-90°	58.9	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°	1205.2	30.2
0°-40°	1937.6	48.5
0°-60°	3269.0	81.8
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1572	1572	1572	1578	1580	149
15°	1489	1493	1507	1521	1530	420
25°	1341	1345	1369	1395	1409	617
35°	1140	1142	1172	1200	1212	711
45°	901	907	937	959	968	696
55°	662	664	682	700	706	593
65°	430	430	438	446	452	427
75°	219	217	219	219	219	235
85°	52	50	50	46	46	62
90°	0	0	0	0	0	



TEST NUMBER: P296442

CATALOG NUMBER: 22RLN-LD5-40-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.3	1584.3	1584.3	1584.3	1584.3
2.5°	1580.3	1580.3	1582.3	1584.3	1586.3
5°	1572.4	1572.4	1572.4	1578.3	1580.3
7.5°	1556.4	1558.4	1560.4	1566.4	1570.4
10°	1538.5	1540.5	1544.5	1554.4	1558.4
12.5°	1514.6	1520.6	1526.5	1540.5	1546.5
15°	1488.7	1492.7	1506.6	1520.6	1530.5
17.5°	1460.8	1462.8	1478.7	1498.6	1502.6
20°	1420.9	1426.9	1446.8	1466.7	1476.7
22.5°	1385.0	1389.0	1410.9	1436.9	1444.8
25°	1341.2	1345.2	1369.1	1395.0	1409.0
27.5°	1295.4	1299.3	1325.3	1353.2	1363.1
30°	1245.5	1249.5	1275.4	1305.3	1315.3
32.5°	1193.7	1197.7	1225.6	1251.5	1265.5
35°	1139.9	1141.9	1171.8	1199.7	1211.7
37.5°	1080.1	1086.1	1114.0	1141.9	1155.9
40°	1020.3	1026.3	1058.2	1084.1	1094.1
42.5°	964.5	972.5	998.4	1022.3	1032.3
45°	900.8	906.8	936.6	958.6	968.5
47.5°	843.0	849.0	874.9	896.8	902.8
50°	783.2	787.2	809.1	829.0	837.0
52.5°	723.4	725.4	745.3	765.3	771.2
55°	661.6	663.6	681.6	699.5	705.5
57.5°	603.8	603.8	619.8	633.7	639.7
60°	542.1	542.1	556.0	570.0	575.9
62.5°	484.3	484.3	498.2	508.2	516.2
65°	430.5	430.5	438.4	446.4	452.4
67.5°	378.6	372.7	380.6	390.6	388.6
70°	324.8	318.9	324.8	328.8	330.8
72.5°	271.0	267.0	271.0	273.0	277.0
75°	219.2	217.2	219.2	219.2	219.2
77.5°	175.4	169.4	173.4	171.4	169.4
80°	129.5	127.5	125.6	123.6	125.6
82.5°	89.7	87.7	87.7	83.7	83.7
85°	51.8	49.8	49.8	45.8	45.8
87.5°	19.9	19.9	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)