

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: P296602

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

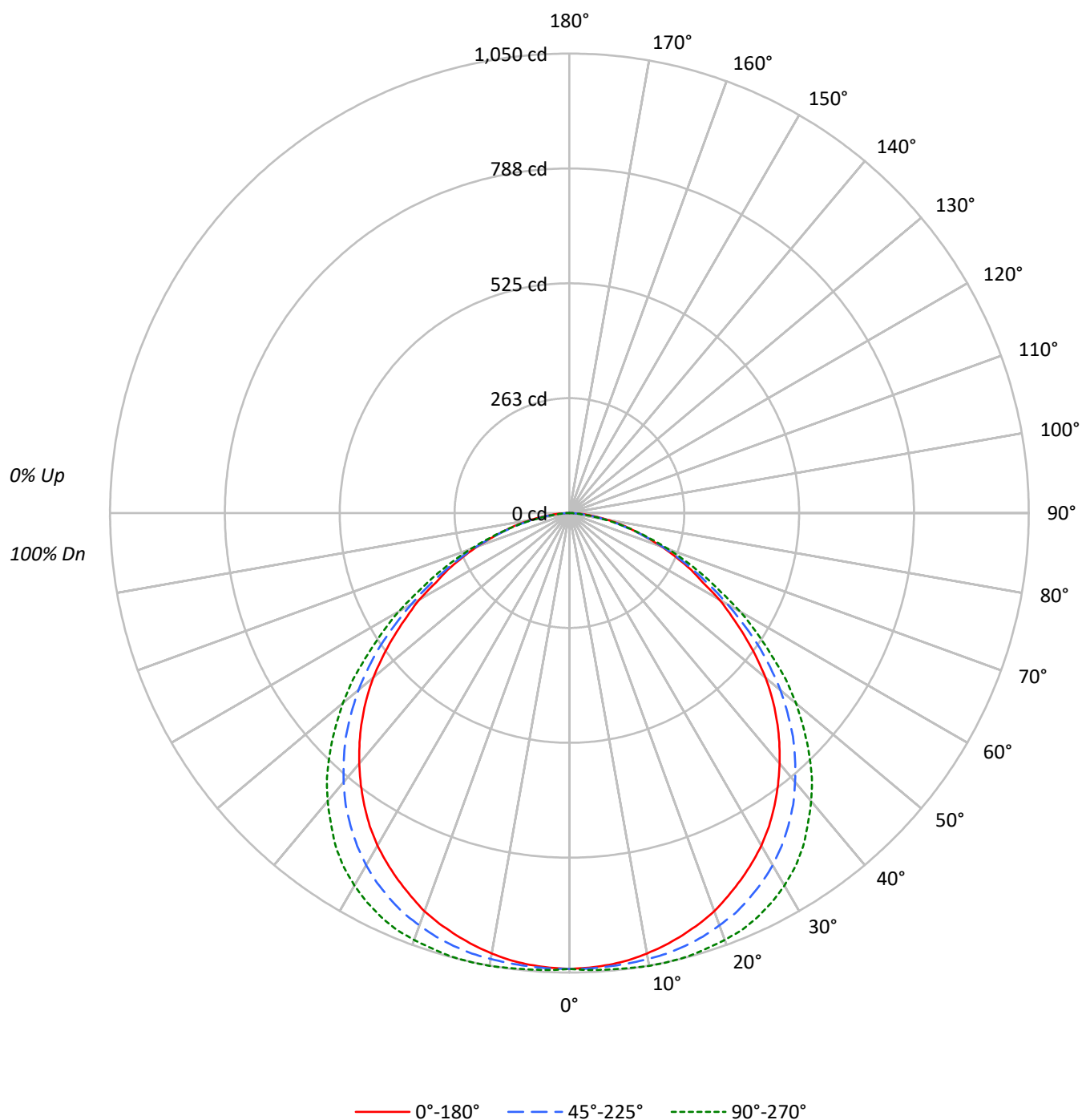
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296602

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot



TEST NUMBER: P296602

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
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	103	99	96	98	95	93	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	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2803	2803	2803
5°	2799	2809	2828
10°	2793	2827	2870
15°	2783	2852	2922
20°	2773	2871	2972
25°	2749	2886	3024
30°	2727	2887	3054
35°	2684	2865	3058
40°	2625	2819	3020
45°	2552	2749	2946
50°	2449	2636	2830
55°	2293	2469	2636
60°	2131	2246	2428
65°	1954	2022	2158
70°	1768	1796	1880
75°	1557	1521	1576
80°	1354	1244	1189
85°	1102	827	716



TEST NUMBER: P296602

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.4
10°-20°	289.2	9.9
20°-30°	448.1	15.4
30°-40°	545.3	18.7
40°-50°	555.4	19.0
50°-60°	468.4	16.1
60°-70°	316.8	10.9
70°-80°	158.3	5.4
80°-90°	35.2	1.2
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°	836.5	28.7
0°-40°	1381.8	47.4
0°-60°	2405.6	82.5
0°-90°	2916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1036	1038	1040	1045	1047	98
15°	999	1006	1024	1042	1049	282
25°	926	940	972	1004	1018	427
35°	817	835	872	913	931	511
45°	671	683	722	760	774	516
55°	489	496	526	551	562	437
65°	307	301	318	332	339	303
75°	150	144	146	148	152	161
85°	36	30	27	23	23	42
90°	0	0	0	0	0	



TEST NUMBER: P296602

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1039.8	1039.8	1041.6	1043.4	1045.2
5°	1036.3	1038.0	1039.8	1045.2	1047.0
7.5°	1030.9	1032.7	1038.0	1045.2	1048.7
10°	1022.0	1025.6	1034.5	1045.2	1050.5
12.5°	1011.3	1016.6	1030.9	1043.4	1050.5
15°	998.8	1005.9	1023.8	1041.6	1048.7
17.5°	984.5	993.4	1014.9	1034.5	1043.4
20°	968.5	979.2	1002.4	1027.3	1038.0
22.5°	947.1	961.3	989.9	1018.4	1030.9
25°	925.7	939.9	972.0	1004.2	1018.4
27.5°	902.5	918.5	952.4	988.1	1002.4
30°	877.5	891.8	929.2	966.7	982.7
32.5°	849.0	863.2	902.5	941.7	959.6
35°	816.9	834.7	872.2	913.2	931.0
37.5°	783.0	799.0	840.1	879.3	895.4
40°	747.3	763.4	802.6	843.6	859.7
42.5°	709.9	725.9	763.4	802.6	820.4
45°	670.6	683.1	722.3	759.8	774.1
47.5°	629.6	638.5	676.0	711.6	725.9
50°	585.0	593.9	629.6	661.7	676.0
52.5°	536.9	544.0	577.9	606.4	622.5
55°	488.7	495.8	526.2	551.1	561.8
57.5°	440.5	444.1	470.9	495.8	506.5
60°	396.0	396.0	417.4	437.0	451.2
62.5°	344.2	349.6	365.6	385.3	390.6
65°	306.8	301.4	317.5	331.7	338.9
67.5°	264.0	260.4	271.1	283.6	287.2
70°	224.7	219.4	228.3	235.4	239.0
72.5°	183.7	181.9	185.5	190.8	192.6
75°	149.8	144.5	146.3	148.0	151.6
77.5°	119.5	110.6	112.4	110.6	112.4
80°	87.4	80.3	80.3	78.5	76.7
82.5°	58.9	55.3	51.7	48.2	46.4
85°	35.7	30.3	26.8	23.2	23.2
87.5°	14.3	10.7	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)