

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: P296609

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296609
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-LD5-40-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

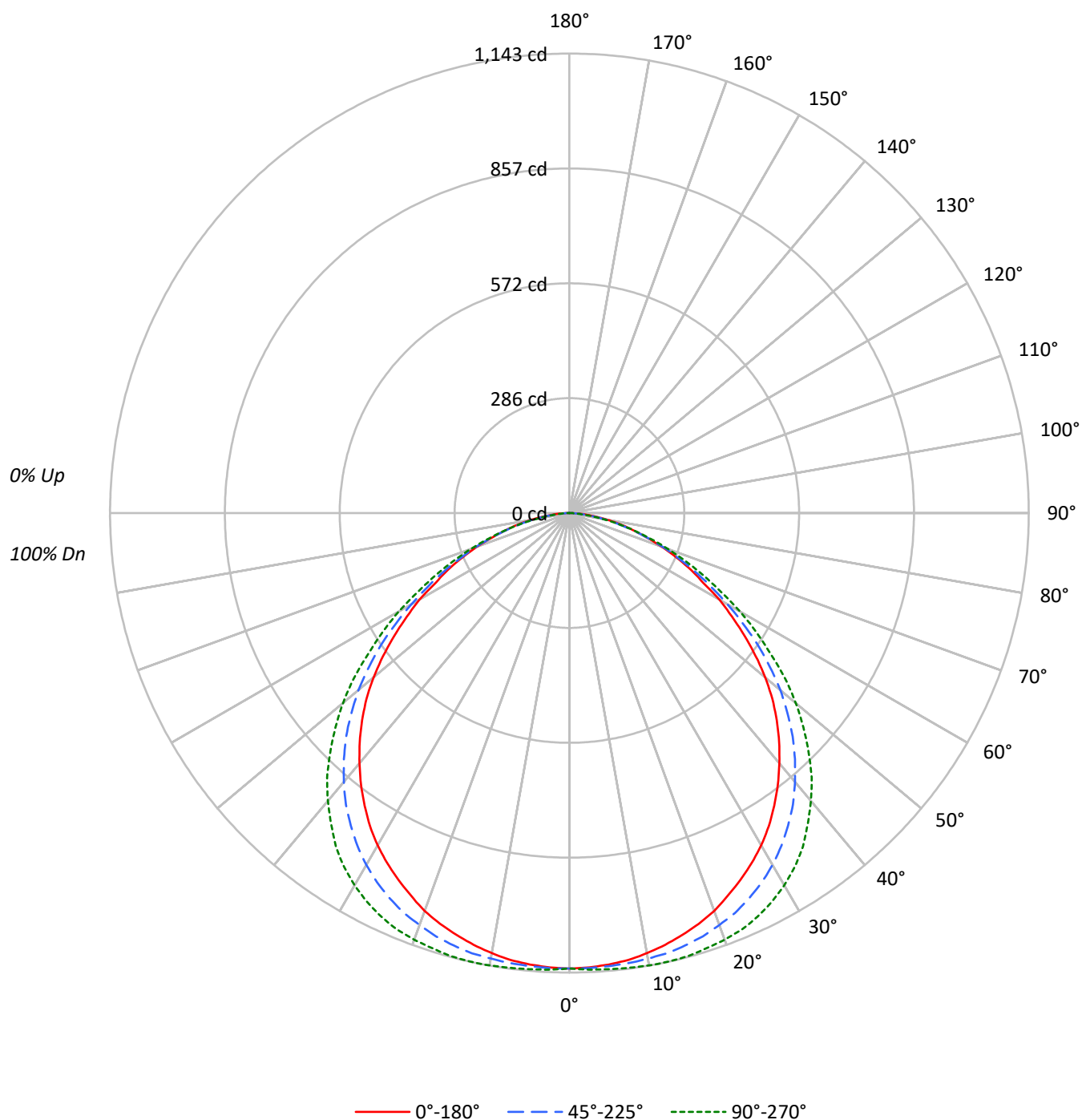
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296609

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P296609

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

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	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°	3049	3049	3049
5°	3045	3055	3076
10°	3038	3075	3122
15°	3027	3102	3178
20°	3017	3123	3234
25°	2990	3140	3289
30°	2966	3141	3322
35°	2919	3117	3327
40°	2856	3067	3285
45°	2776	2990	3204
50°	2664	2867	3078
55°	2494	2685	2867
60°	2318	2443	2642
65°	2125	2199	2347
70°	1924	1954	2046
75°	1695	1654	1714
80°	1474	1353	1292
85°	1198	898	778



TEST NUMBER: P296609

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.4
10°-20°	314.6	9.9
20°-30°	487.4	15.4
30°-40°	593.2	18.7
40°-50°	604.2	19.0
50°-60°	509.5	16.1
60°-70°	344.7	10.9
70°-80°	172.2	5.4
80°-90°	38.3	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°	909.9	28.7
0°-40°	1503.1	47.4
0°-60°	2616.8	82.5
0°-90°	3172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1127	1129	1131	1137	1139	107
15°	1086	1094	1114	1133	1141	307
25°	1007	1022	1057	1092	1108	464
35°	889	908	949	993	1013	555
45°	730	743	786	826	842	562
55°	532	539	572	600	611	476
65°	334	328	345	361	369	330
75°	163	157	159	161	165	175
85°	39	33	29	25	25	45
90°	0	0	0	0	0	



TEST NUMBER: P296609

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.0	1133.0	1133.0	1133.0	1133.0
2.5°	1131.1	1131.1	1133.0	1135.0	1136.9
5°	1127.2	1129.2	1131.1	1136.9	1138.9
7.5°	1121.4	1123.3	1129.2	1136.9	1140.8
10°	1111.7	1115.6	1125.3	1136.9	1142.7
12.5°	1100.1	1105.9	1121.4	1135.0	1142.7
15°	1086.5	1094.2	1113.6	1133.0	1140.8
17.5°	1071.0	1080.7	1103.9	1125.3	1135.0
20°	1053.5	1065.1	1090.4	1117.5	1129.2
22.5°	1030.2	1045.7	1076.8	1107.8	1121.4
25°	1006.9	1022.5	1057.4	1092.3	1107.8
27.5°	981.7	999.2	1036.0	1074.8	1090.4
30°	954.6	970.1	1010.8	1051.6	1069.0
32.5°	923.5	939.0	981.7	1024.4	1043.8
35°	888.6	908.0	948.7	993.4	1012.8
37.5°	851.7	869.2	913.8	956.5	974.0
40°	812.9	830.4	873.1	917.7	935.2
42.5°	772.2	789.6	830.4	873.1	892.5
45°	729.5	743.1	785.8	826.5	842.0
47.5°	684.9	694.6	735.3	774.1	789.6
50°	636.4	646.1	684.9	719.8	735.3
52.5°	584.0	591.7	628.6	659.7	677.1
55°	531.6	539.4	572.3	599.5	611.1
57.5°	479.2	483.1	512.2	539.4	551.0
60°	430.7	430.7	454.0	475.3	490.9
62.5°	374.4	380.3	397.7	419.1	424.9
65°	333.7	327.9	345.3	360.9	368.6
67.5°	287.1	283.3	294.9	308.5	312.4
70°	244.5	238.6	248.3	256.1	260.0
72.5°	199.8	197.9	201.8	207.6	209.5
75°	163.0	157.2	159.1	161.0	164.9
77.5°	130.0	120.3	122.2	120.3	122.2
80°	95.1	87.3	87.3	85.4	83.4
82.5°	64.0	60.1	56.3	52.4	50.4
85°	38.8	33.0	29.1	25.2	25.2
87.5°	15.5	11.6	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)