

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: P296553

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296553
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-LD5-31-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

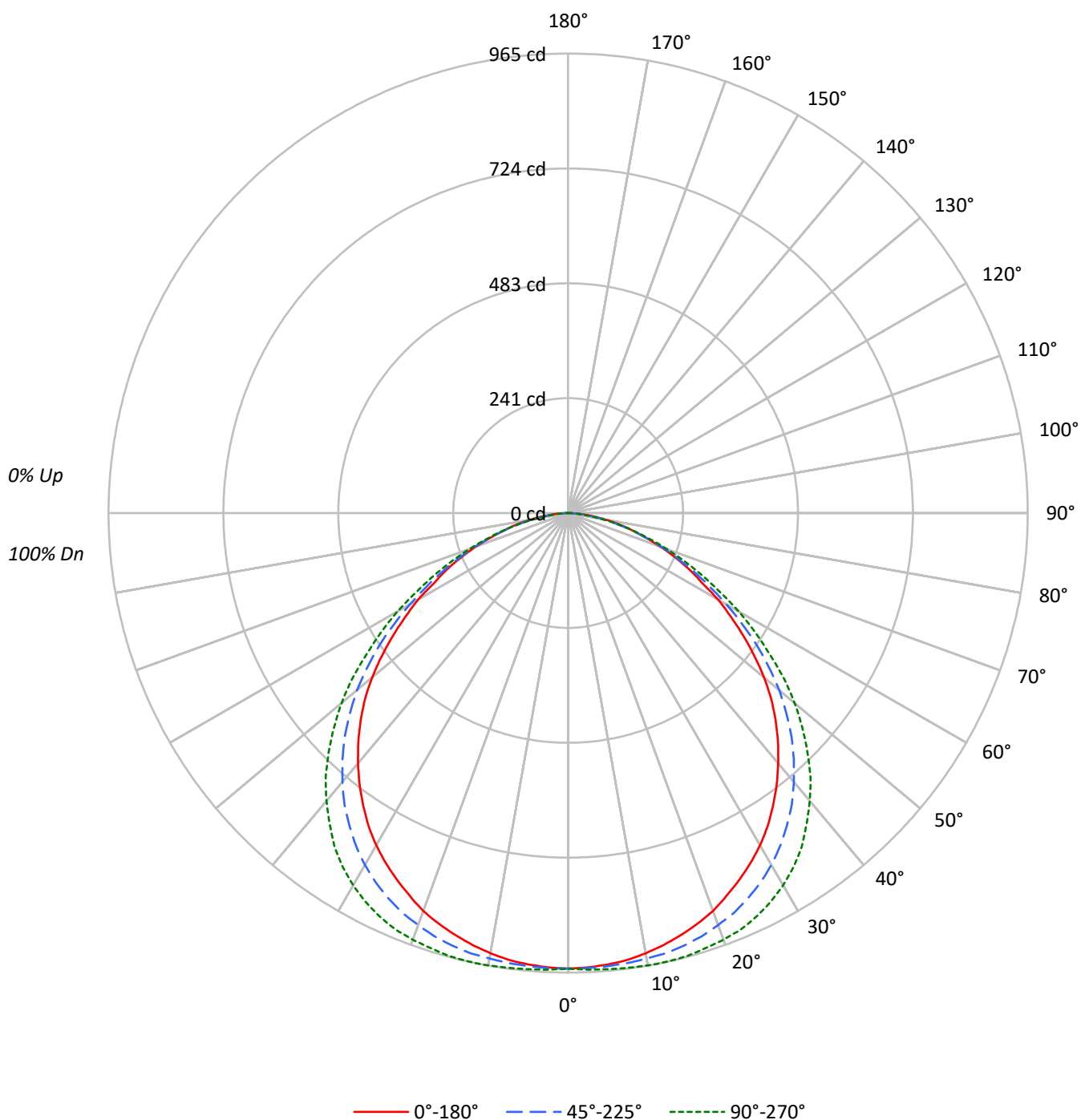
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296553

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P296553

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4000K

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	50	30	10
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°	2574	2574	2574
5°	2571	2580	2597
10°	2565	2596	2636
15°	2556	2619	2683
20°	2547	2636	2730
25°	2524	2651	2777
30°	2504	2652	2804
35°	2464	2631	2809
40°	2411	2589	2773
45°	2344	2525	2705
50°	2249	2421	2599
55°	2106	2267	2421
60°	1957	2063	2230
65°	1794	1857	1982
70°	1624	1650	1727
75°	1431	1396	1447
80°	1244	1142	1091
85°	1013	760	658



TEST NUMBER: P296553

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.4
10°-20°	265.6	9.9
20°-30°	411.5	15.4
30°-40°	500.8	18.7
40°-50°	510.1	19.0
50°-60°	430.2	16.1
60°-70°	291.0	10.9
70°-80°	145.4	5.4
80°-90°	32.3	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°	768.2	28.7
0°-40°	1269.0	47.4
0°-60°	2209.3	82.5
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	952	953	955	960	962	90
15°	917	924	940	957	963	259
25°	850	863	893	922	935	392
35°	750	767	801	839	855	469
45°	616	627	663	698	711	474
55°	449	455	483	506	516	402
65°	282	277	292	305	311	278
75°	138	133	134	136	139	147
85°	33	28	25	21	21	38
90°	0	0	0	0	0	



TEST NUMBER: P296553

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.6	956.6	956.6	956.6	956.6
2.5°	955.0	955.0	956.6	958.2	959.9
5°	951.7	953.3	955.0	959.9	961.5
7.5°	946.8	948.4	953.3	959.9	963.1
10°	938.6	941.8	950.0	959.9	964.8
12.5°	928.7	933.7	946.8	958.2	964.8
15°	917.3	923.8	940.2	956.6	963.1
17.5°	904.2	912.4	932.0	950.0	958.2
20°	889.4	899.3	920.6	943.5	953.3
22.5°	869.8	882.9	909.1	935.3	946.8
25°	850.1	863.2	892.7	922.2	935.3
27.5°	828.8	843.6	874.7	907.5	920.6
30°	805.9	819.0	853.4	887.8	902.5
32.5°	779.7	792.8	828.8	864.9	881.2
35°	750.2	766.6	801.0	838.7	855.0
37.5°	719.1	733.8	771.5	807.5	822.3
40°	686.3	701.1	737.1	774.8	789.5
42.5°	651.9	666.7	701.1	737.1	753.5
45°	615.9	627.4	663.4	697.8	710.9
47.5°	578.2	586.4	620.8	653.6	666.7
50°	537.3	545.5	578.2	607.7	620.8
52.5°	493.0	499.6	530.7	556.9	571.7
55°	448.8	455.4	483.2	506.1	516.0
57.5°	404.6	407.9	432.4	455.4	465.2
60°	363.6	363.6	383.3	401.3	414.4
62.5°	316.1	321.0	335.8	353.8	358.7
65°	281.7	276.8	291.6	304.7	311.2
67.5°	242.4	239.1	249.0	260.4	263.7
70°	206.4	201.5	209.7	216.2	219.5
72.5°	168.7	167.1	170.4	175.3	176.9
75°	137.6	132.7	134.3	136.0	139.2
77.5°	109.7	101.6	103.2	101.6	103.2
80°	80.3	73.7	73.7	72.1	70.4
82.5°	54.1	50.8	47.5	44.2	42.6
85°	32.8	27.8	24.6	21.3	21.3
87.5°	13.1	9.8	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)