

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: P296543

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296543
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-LD5-20-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: 1708.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

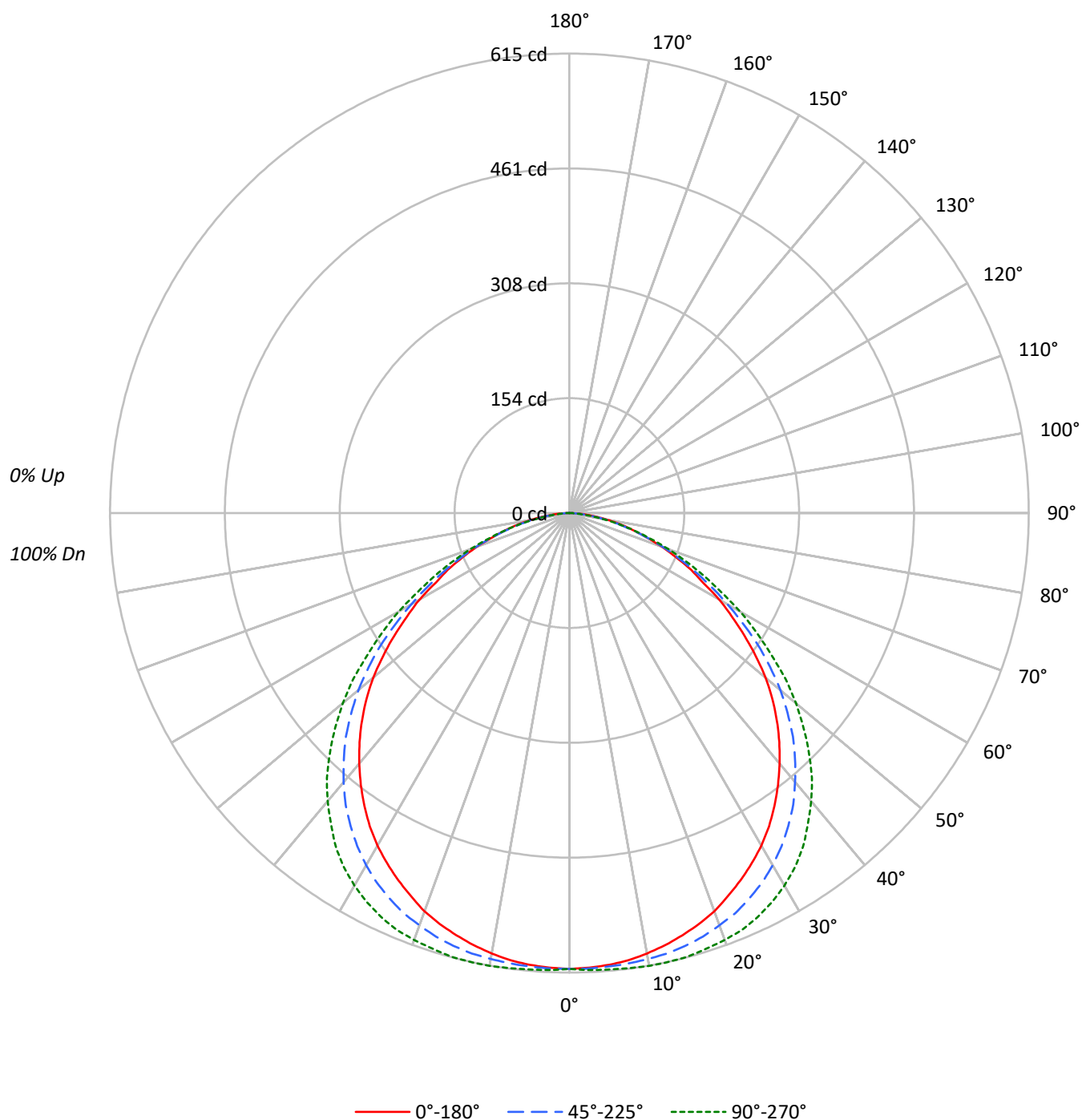
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296543

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P296543

CATALOG NUMBER: 22RLN-LD5-20-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	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°	1642	1642	1642
5°	1640	1645	1656
10°	1636	1656	1681
15°	1630	1671	1711
20°	1625	1681	1741
25°	1610	1691	1771
30°	1597	1691	1789
35°	1572	1678	1791
40°	1538	1651	1769
45°	1495	1610	1725
50°	1435	1544	1657
55°	1343	1446	1544
60°	1248	1316	1422
65°	1144	1184	1264
70°	1035	1052	1102
75°	913	891	923
80°	793	728	696
85°	645	485	420



TEST NUMBER: P296543

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.4
10°-20°	169.4	9.9
20°-30°	262.5	15.4
30°-40°	319.4	18.7
40°-50°	325.3	19.0
50°-60°	274.3	16.1
60°-70°	185.6	10.9
70°-80°	92.7	5.4
80°-90°	20.6	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°	490.0	28.7
0°-40°	809.4	47.4
0°-60°	1409.0	82.5
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	607	608	609	612	613	58
15°	585	589	600	610	614	165
25°	542	551	569	588	596	250
35°	478	489	511	535	545	299
45°	393	400	423	445	453	303
55°	286	290	308	323	329	256
65°	180	177	186	194	198	177
75°	88	85	86	87	89	94
85°	21	18	16	14	14	24
90°	0	0	0	0	0	



TEST NUMBER: P296543

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.1	610.1	610.1	610.1	610.1
2.5°	609.1	609.1	610.1	611.1	612.2
5°	607.0	608.0	609.1	612.2	613.2
7.5°	603.8	604.9	608.0	612.2	614.3
10°	598.6	600.7	605.9	612.2	615.3
12.5°	592.3	595.5	603.8	611.1	615.3
15°	585.0	589.2	599.7	610.1	614.3
17.5°	576.7	581.9	594.4	605.9	611.1
20°	567.3	573.5	587.1	601.7	608.0
22.5°	554.7	563.1	579.8	596.5	603.8
25°	542.2	550.6	569.4	588.2	596.5
27.5°	528.6	538.0	557.9	578.8	587.1
30°	514.0	522.3	544.3	566.2	575.6
32.5°	497.3	505.6	528.6	551.6	562.0
35°	478.5	488.9	510.9	534.9	545.3
37.5°	458.6	468.0	492.1	515.0	524.4
40°	437.7	447.1	470.1	494.1	503.5
42.5°	415.8	425.2	447.1	470.1	480.6
45°	392.8	400.1	423.1	445.0	453.4
47.5°	368.8	374.0	395.9	416.8	425.2
50°	342.7	347.9	368.8	387.6	395.9
52.5°	314.5	318.6	338.5	355.2	364.6
55°	286.2	290.4	308.2	322.8	329.1
57.5°	258.0	260.1	275.8	290.4	296.7
60°	231.9	231.9	244.5	256.0	264.3
62.5°	201.6	204.8	214.2	225.7	228.8
65°	179.7	176.6	186.0	194.3	198.5
67.5°	154.6	152.5	158.8	166.1	168.2
70°	131.6	128.5	133.7	137.9	140.0
72.5°	107.6	106.6	108.6	111.8	112.8
75°	87.8	84.6	85.7	86.7	88.8
77.5°	70.0	64.8	65.8	64.8	65.8
80°	51.2	47.0	47.0	46.0	44.9
82.5°	34.5	32.4	30.3	28.2	27.2
85°	20.9	17.8	15.7	13.6	13.6
87.5°	8.4	6.3	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)