

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: P296579

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296579
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-L82765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1701.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

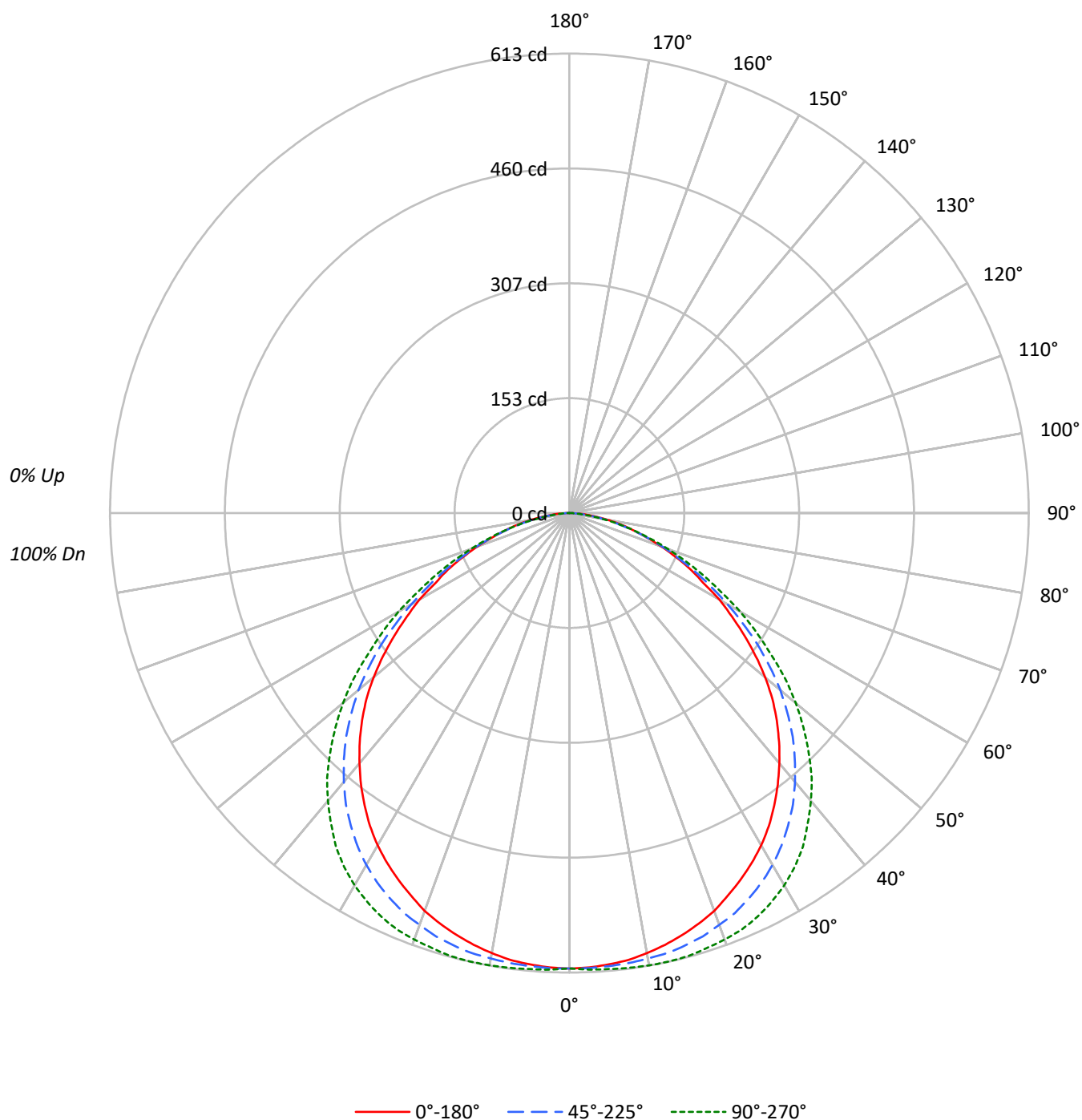
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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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°	1635	1635	1635
5°	1633	1639	1650
10°	1629	1649	1674
15°	1623	1664	1704
20°	1618	1674	1734
25°	1603	1684	1764
30°	1591	1684	1781
35°	1565	1671	1784
40°	1531	1645	1762
45°	1489	1604	1718
50°	1429	1538	1651
55°	1338	1440	1537
60°	1243	1311	1417
65°	1140	1179	1259
70°	1031	1048	1097
75°	909	887	919
80°	790	725	693
85°	642	482	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.4
10°-20°	168.7	9.9
20°-30°	261.4	15.4
30°-40°	318.1	18.7
40°-50°	324.0	19.0
50°-60°	273.2	16.1
60°-70°	184.8	10.9
70°-80°	92.4	5.4
80°-90°	20.5	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°	487.9	28.7
0°-40°	806.1	47.4
0°-60°	1403.3	82.5
0°-90°	1701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	604	606	607	610	611	57
15°	583	587	597	608	612	164
25°	540	548	567	586	594	249
35°	476	487	509	533	543	298
45°	391	398	421	443	452	301
55°	285	289	307	322	328	255
65°	179	176	185	194	198	177
75°	87	84	85	86	88	94
85°	21	18	16	14	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.6	607.6	607.6	607.6	607.6
2.5°	606.6	606.6	607.6	608.6	609.7
5°	604.5	605.5	606.6	609.7	610.7
7.5°	601.4	602.4	605.5	609.7	611.8
10°	596.2	598.2	603.4	609.7	612.8
12.5°	589.9	593.0	601.4	608.6	612.8
15°	582.6	586.8	597.2	607.6	611.8
17.5°	574.3	579.5	592.0	603.4	608.6
20°	564.9	571.2	584.7	599.3	605.5
22.5°	552.5	560.8	577.4	594.1	601.4
25°	540.0	548.3	567.0	585.8	594.1
27.5°	526.5	535.8	555.6	576.4	584.7
30°	511.9	520.2	542.1	563.9	573.3
32.5°	495.2	503.6	526.5	549.3	559.7
35°	476.5	486.9	508.8	532.7	543.1
37.5°	456.7	466.1	490.0	512.9	522.3
40°	435.9	445.3	468.2	492.1	501.5
42.5°	414.1	423.4	445.3	468.2	478.6
45°	391.2	398.5	421.4	443.2	451.5
47.5°	367.3	372.5	394.3	415.1	423.4
50°	341.3	346.5	367.3	386.0	394.3
52.5°	313.2	317.3	337.1	353.7	363.1
55°	285.1	289.2	306.9	321.5	327.7
57.5°	257.0	259.1	274.7	289.2	295.5
60°	231.0	231.0	243.5	254.9	263.2
62.5°	200.8	203.9	213.3	224.7	227.9
65°	179.0	175.8	185.2	193.5	197.7
67.5°	154.0	151.9	158.1	165.4	167.5
70°	131.1	128.0	133.2	137.3	139.4
72.5°	107.2	106.1	108.2	111.3	112.4
75°	87.4	84.3	85.3	86.4	88.4
77.5°	69.7	64.5	65.5	64.5	65.5
80°	51.0	46.8	46.8	45.8	44.7
82.5°	34.3	32.3	30.2	28.1	27.1
85°	20.8	17.7	15.6	13.5	13.5
87.5°	8.3	6.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)