

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: P296590

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296590
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-L82765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

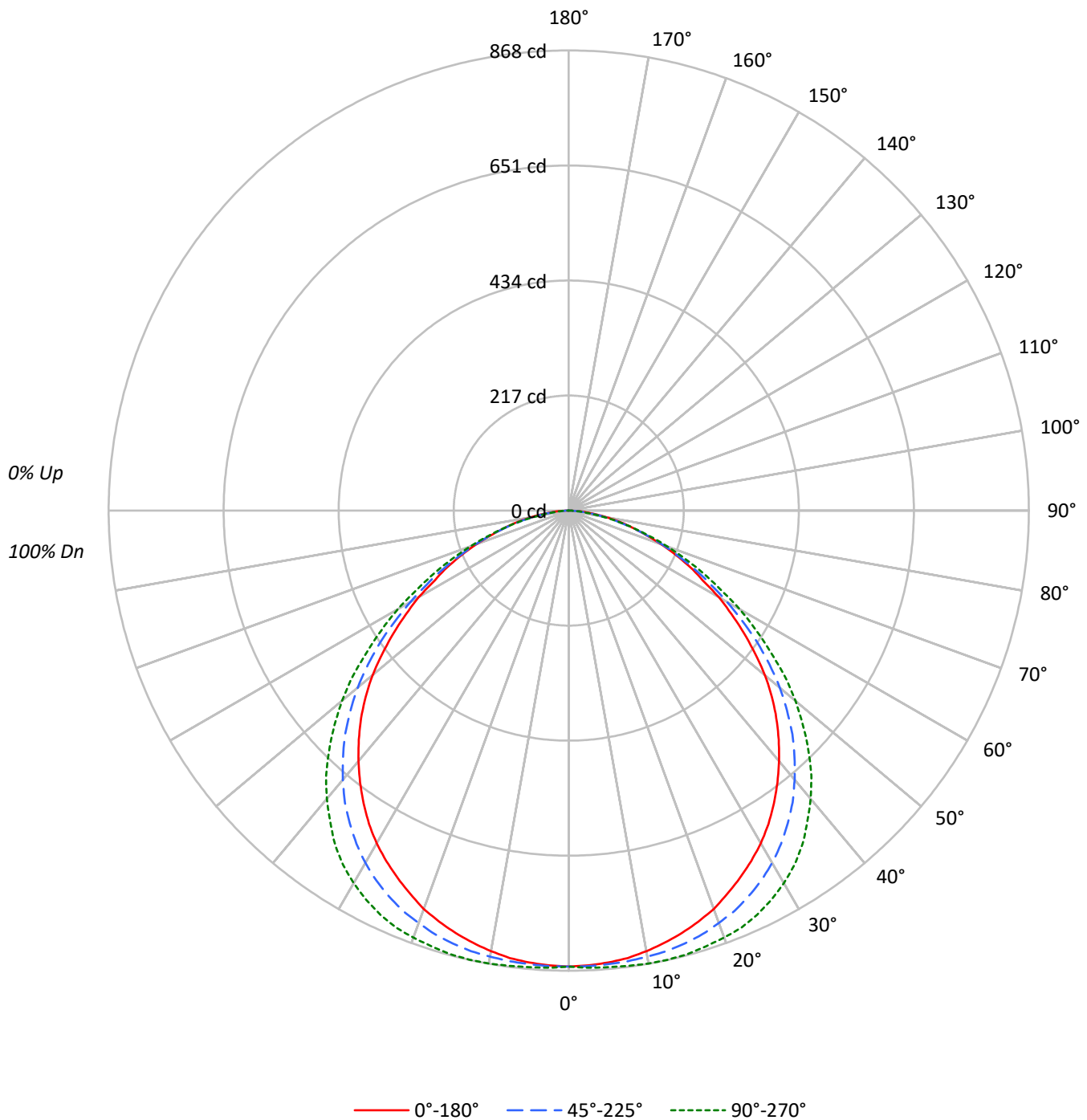
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296590

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P296590

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K

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°	2315	2315	2315
5°	2311	2320	2336
10°	2306	2334	2370
15°	2298	2355	2413
20°	2290	2370	2455
25°	2270	2383	2497
30°	2252	2385	2522
35°	2216	2366	2526
40°	2168	2328	2494
45°	2108	2270	2433
50°	2022	2177	2337
55°	1894	2038	2176
60°	1760	1855	2005
65°	1613	1670	1782
70°	1460	1483	1553
75°	1286	1256	1302
80°	1119	1027	981
85°	911	682	590



TEST NUMBER: P296590

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.4
10°-20°	238.8	9.9
20°-30°	370.0	15.4
30°-40°	450.3	18.7
40°-50°	458.7	19.0
50°-60°	386.8	16.1
60°-70°	261.6	10.9
70°-80°	130.8	5.4
80°-90°	29.1	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°	690.8	28.7
0°-40°	1141.1	47.4
0°-60°	1986.5	82.5
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	856	857	859	863	865	81
15°	825	831	845	860	866	233
25°	764	776	803	829	841	352
35°	675	689	720	754	769	422
45°	554	564	596	627	639	426
55°	404	410	434	455	464	361
65°	253	249	262	274	280	250
75°	124	119	121	122	125	133
85°	30	25	22	19	19	34
90°	0	0	0	0	0	



TEST NUMBER: P296590

CATALOG NUMBER: 22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.1	860.1	860.1	860.1	860.1
2.5°	858.7	858.7	860.1	861.6	863.1
5°	855.7	857.2	858.7	863.1	864.6
7.5°	851.3	852.8	857.2	863.1	866.0
10°	843.9	846.9	854.3	863.1	867.5
12.5°	835.1	839.5	851.3	861.6	867.5
15°	824.8	830.7	845.4	860.1	866.0
17.5°	813.0	820.4	838.1	854.3	861.6
20°	799.8	808.6	827.7	848.4	857.2
22.5°	782.1	793.9	817.4	841.0	851.3
25°	764.4	776.2	802.7	829.2	841.0
27.5°	745.3	758.5	786.5	816.0	827.7
30°	724.6	736.4	767.4	798.3	811.5
32.5°	701.1	712.9	745.3	777.7	792.4
35°	674.6	689.3	720.2	754.1	768.8
37.5°	646.6	659.8	693.7	726.1	739.4
40°	617.1	630.4	662.8	696.7	709.9
42.5°	586.2	599.5	630.4	662.8	677.5
45°	553.8	564.1	596.5	627.4	639.2
47.5°	519.9	527.3	558.2	587.7	599.5
50°	483.1	490.5	519.9	546.4	558.2
52.5°	443.3	449.2	477.2	500.8	514.0
55°	403.6	409.5	434.5	455.1	463.9
57.5°	363.8	366.7	388.8	409.5	418.3
60°	327.0	327.0	344.6	360.8	372.6
62.5°	284.3	288.7	301.9	318.1	322.6
65°	253.3	248.9	262.2	274.0	279.8
67.5°	218.0	215.0	223.9	234.2	237.1
70°	185.6	181.2	188.5	194.4	197.4
72.5°	151.7	150.2	153.2	157.6	159.1
75°	123.7	119.3	120.8	122.2	125.2
77.5°	98.7	91.3	92.8	91.3	92.8
80°	72.2	66.3	66.3	64.8	63.3
82.5°	48.6	45.7	42.7	39.8	38.3
85°	29.5	25.0	22.1	19.1	19.1
87.5°	11.8	8.8	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)