

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: P296681

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296681
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-L92765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2421.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

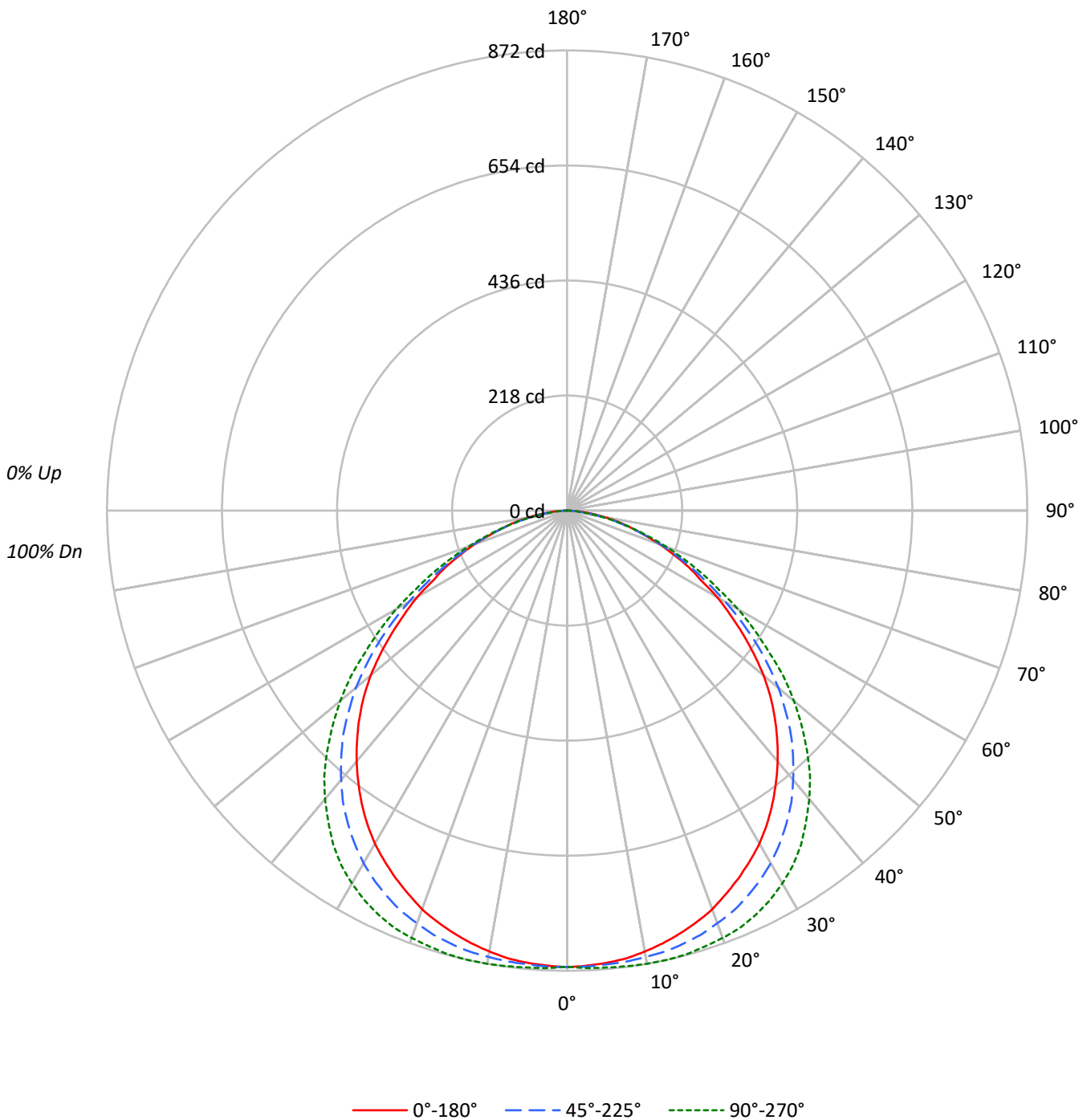
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2324	2332	2348
10°	2319	2347	2383
15°	2310	2368	2426
20°	2303	2383	2468
25°	2282	2396	2510
30°	2264	2397	2535
35°	2228	2379	2539
40°	2180	2341	2507
45°	2119	2282	2446
50°	2033	2188	2349
55°	1903	2049	2189
60°	1769	1865	2016
65°	1622	1678	1792
70°	1468	1491	1561
75°	1293	1262	1309
80°	1125	1032	987
85°	914	685	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.4
10°-20°	240.1	9.9
20°-30°	372.0	15.4
30°-40°	452.8	18.7
40°-50°	461.1	19.0
50°-60°	388.9	16.1
60°-70°	263.1	10.9
70°-80°	131.4	5.4
80°-90°	29.2	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°	694.5	28.7
0°-40°	1147.3	47.4
0°-60°	1997.2	82.5
0°-90°	2421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	860	862	863	868	869	82
15°	829	835	850	865	871	234
25°	768	780	807	834	846	354
35°	678	693	724	758	773	424
45°	557	567	600	631	643	429
55°	406	412	437	458	466	363
65°	255	250	264	275	281	252
75°	124	120	121	123	126	133
85°	30	25	22	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.8	864.8	864.8	864.8	864.8
2.5°	863.3	863.3	864.8	866.3	867.8
5°	860.3	861.8	863.3	867.8	869.2
7.5°	855.9	857.4	861.8	867.8	870.7
10°	848.5	851.5	858.9	867.8	872.2
12.5°	839.6	844.1	855.9	866.3	872.2
15°	829.3	835.2	850.0	864.8	870.7
17.5°	817.4	824.8	842.6	858.9	866.3
20°	804.1	813.0	832.2	852.9	861.8
22.5°	786.3	798.2	821.8	845.5	855.9
25°	768.5	780.4	807.0	833.7	845.5
27.5°	749.3	762.6	790.7	820.4	832.2
30°	728.6	740.4	771.5	802.6	815.9
32.5°	704.9	716.7	749.3	781.9	796.7
35°	678.2	693.0	724.1	758.2	773.0
37.5°	650.1	663.4	697.5	730.0	743.4
40°	620.5	633.8	666.4	700.4	713.7
42.5°	589.4	602.7	633.8	666.4	681.2
45°	556.8	567.1	599.7	630.8	642.7
47.5°	522.7	530.1	561.2	590.8	602.7
50°	485.7	493.1	522.7	549.4	561.2
52.5°	445.7	451.6	479.8	503.5	516.8
55°	405.7	411.7	436.8	457.6	466.5
57.5°	365.8	368.7	390.9	411.7	420.5
60°	328.7	328.7	346.5	362.8	374.6
62.5°	285.8	290.2	303.6	319.9	324.3
65°	254.7	250.3	263.6	275.4	281.4
67.5°	219.2	216.2	225.1	235.4	238.4
70°	186.6	182.1	189.5	195.5	198.4
72.5°	152.5	151.0	154.0	158.4	159.9
75°	124.4	119.9	121.4	122.9	125.9
77.5°	99.2	91.8	93.3	91.8	93.3
80°	72.6	66.6	66.6	65.2	63.7
82.5°	48.9	45.9	42.9	40.0	38.5
85°	29.6	25.2	22.2	19.3	19.3
87.5°	11.8	8.9	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)