

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: P296591

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296591
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

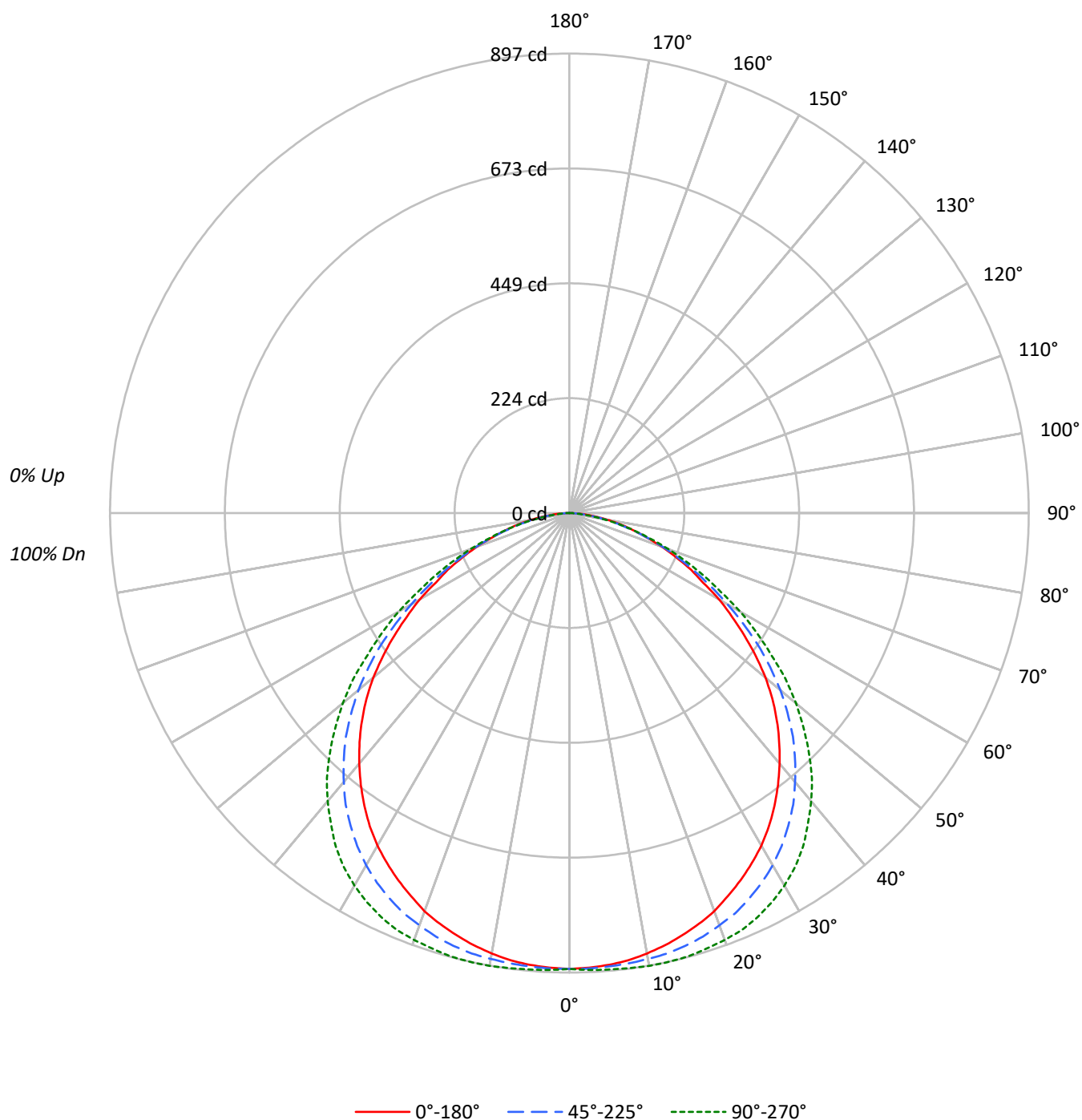
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2394	2394	2394
5°	2391	2400	2416
10°	2385	2415	2452
15°	2377	2437	2496
20°	2369	2452	2539
25°	2348	2466	2583
30°	2329	2467	2609
35°	2292	2447	2613
40°	2243	2408	2580
45°	2180	2348	2517
50°	2092	2251	2418
55°	1959	2109	2251
60°	1820	1919	2075
65°	1669	1727	1843
70°	1511	1534	1607
75°	1331	1299	1346
80°	1158	1063	1015
85°	942	707	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.4
10°-20°	247.1	9.9
20°-30°	382.8	15.4
30°-40°	465.8	18.7
40°-50°	474.5	19.0
50°-60°	400.1	16.1
60°-70°	270.7	10.9
70°-80°	135.3	5.4
80°-90°	30.1	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°	714.6	28.7
0°-40°	1180.4	47.4
0°-60°	2055.0	82.5
0°-90°	2491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	885	887	888	893	894	84
15°	853	859	875	890	896	241
25°	791	803	830	858	870	365
35°	698	713	745	780	795	436
45°	573	584	617	649	661	441
55°	418	424	450	471	480	373
65°	262	258	271	283	290	259
75°	128	123	125	126	130	137
85°	30	26	23	20	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.8	889.8	889.8	889.8	889.8
2.5°	888.3	888.3	889.8	891.3	892.8
5°	885.2	886.7	888.3	892.8	894.4
7.5°	880.7	882.2	886.7	892.8	895.9
10°	873.0	876.1	883.7	892.8	897.4
12.5°	863.9	868.5	880.7	891.3	897.4
15°	853.2	859.3	874.6	889.8	895.9
17.5°	841.0	848.7	866.9	883.7	891.3
20°	827.3	836.5	856.3	877.6	886.7
22.5°	809.0	821.2	845.6	870.0	880.7
25°	790.8	802.9	830.4	857.8	870.0
27.5°	771.0	784.7	813.6	844.1	856.3
30°	749.6	761.8	793.8	825.8	839.5
32.5°	725.2	737.4	771.0	804.5	819.7
35°	697.8	713.1	745.0	780.1	795.3
37.5°	668.9	682.6	717.6	751.1	764.9
40°	638.4	652.1	685.6	720.7	734.4
42.5°	606.4	620.1	652.1	685.6	700.9
45°	572.9	583.5	617.1	649.1	661.3
47.5°	537.8	545.5	577.5	607.9	620.1
50°	499.7	507.4	537.8	565.3	577.5
52.5°	458.6	464.7	493.7	518.0	531.7
55°	417.5	423.6	449.5	470.8	479.9
57.5°	376.3	379.4	402.2	423.6	432.7
60°	338.2	338.2	356.5	373.3	385.5
62.5°	294.1	298.6	312.3	329.1	333.7
65°	262.1	257.5	271.2	283.4	289.5
67.5°	225.5	222.4	231.6	242.3	245.3
70°	192.0	187.4	195.0	201.1	204.2
72.5°	156.9	155.4	158.5	163.0	164.6
75°	128.0	123.4	124.9	126.5	129.5
77.5°	102.1	94.5	96.0	94.5	96.0
80°	74.7	68.6	68.6	67.0	65.5
82.5°	50.3	47.2	44.2	41.1	39.6
85°	30.5	25.9	22.9	19.8	19.8
87.5°	12.2	9.1	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)