

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: P296593

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296593
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-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2591.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

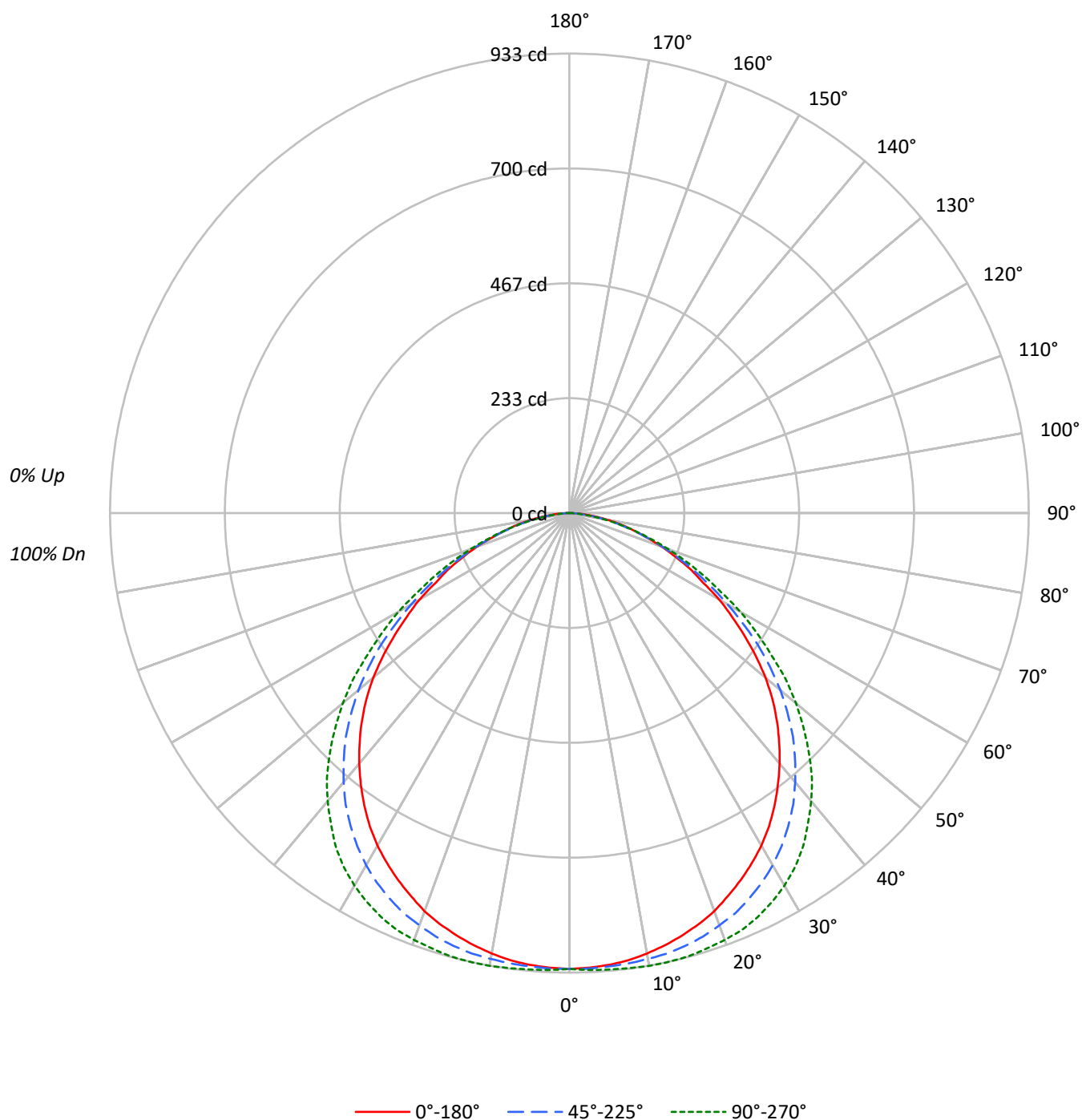
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2491	2491	2491
5°	2487	2496	2513
10°	2481	2512	2551
15°	2472	2534	2596
20°	2464	2550	2641
25°	2442	2564	2687
30°	2423	2566	2713
35°	2384	2546	2718
40°	2333	2505	2683
45°	2268	2442	2618
50°	2176	2342	2514
55°	2037	2193	2342
60°	1893	1996	2158
65°	1736	1796	1917
70°	1571	1596	1671
75°	1384	1352	1400
80°	1204	1105	1055
85°	979	735	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.4
10°-20°	257.0	9.9
20°-30°	398.1	15.4
30°-40°	484.6	18.7
40°-50°	493.5	19.0
50°-60°	416.2	16.1
60°-70°	281.5	10.9
70°-80°	140.7	5.4
80°-90°	31.3	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°	743.2	28.7
0°-40°	1227.8	47.4
0°-60°	2137.5	82.5
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	921	922	924	929	930	88
15°	888	894	910	926	932	251
25°	822	835	864	892	905	379
35°	726	742	775	811	827	454
45°	596	607	642	675	688	459
55°	434	441	468	490	499	388
65°	273	268	282	295	301	269
75°	133	128	130	132	135	143
85°	32	27	24	21	21	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.5	925.5	925.5	925.5	925.5
2.5°	923.9	923.9	925.5	927.1	928.7
5°	920.8	922.3	923.9	928.7	930.3
7.5°	916.0	917.6	922.3	928.7	931.9
10°	908.1	911.3	919.2	928.7	933.4
12.5°	898.6	903.3	916.0	927.1	933.4
15°	887.5	893.8	909.7	925.5	931.9
17.5°	874.8	882.7	901.7	919.2	927.1
20°	860.5	870.0	890.6	912.8	922.3
22.5°	841.5	854.2	879.6	904.9	916.0
25°	822.5	835.2	863.7	892.2	904.9
27.5°	801.9	816.2	846.3	878.0	890.6
30°	779.7	792.4	825.7	859.0	873.2
32.5°	754.4	767.0	801.9	836.8	852.6
35°	725.8	741.7	775.0	811.4	827.3
37.5°	695.7	710.0	746.4	781.3	795.6
40°	664.0	678.3	713.2	749.6	763.9
42.5°	630.7	645.0	678.3	713.2	729.0
45°	595.9	607.0	641.8	675.1	687.8
47.5°	559.4	567.4	600.6	632.3	645.0
50°	519.8	527.7	559.4	588.0	600.6
52.5°	477.0	483.4	513.5	538.8	553.1
55°	434.2	440.6	467.5	489.7	499.2
57.5°	391.4	394.6	418.4	440.6	450.1
60°	351.8	351.8	370.8	388.3	401.0
62.5°	305.9	310.6	324.9	342.3	347.1
65°	272.6	267.8	282.1	294.8	301.1
67.5°	234.5	231.4	240.9	252.0	255.2
70°	199.7	194.9	202.9	209.2	212.4
72.5°	163.2	161.6	164.8	169.6	171.2
75°	133.1	128.4	130.0	131.5	134.7
77.5°	106.2	98.3	99.8	98.3	99.8
80°	77.7	71.3	71.3	69.7	68.1
82.5°	52.3	49.1	46.0	42.8	41.2
85°	31.7	26.9	23.8	20.6	20.6
87.5°	12.7	9.5	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)