

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: P296506

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2563.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

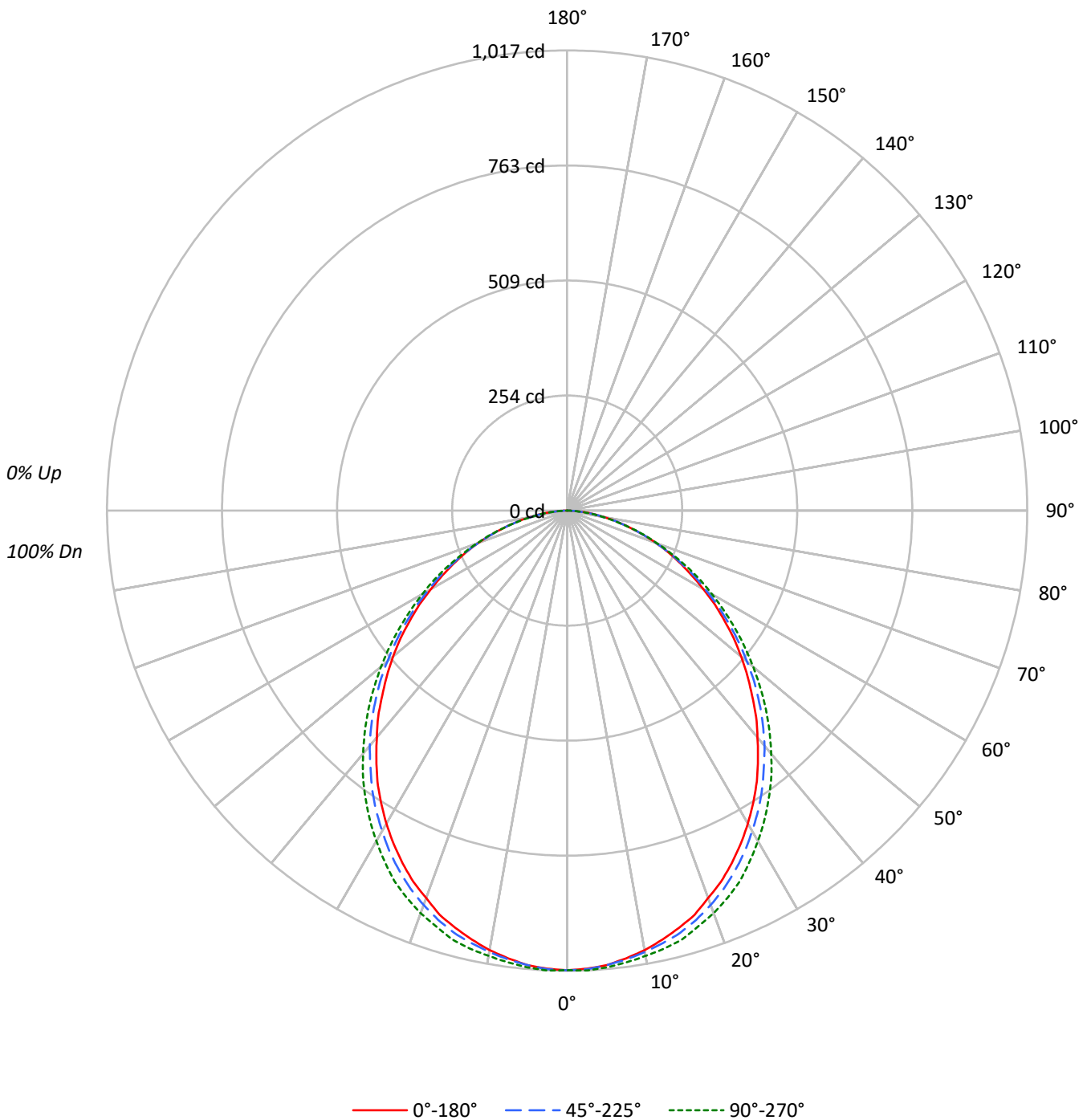
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296506

CATALOG NUMBER: 22RLN-LD5-31-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296506

CATALOG NUMBER: 22RLN-LD5-31-UNV-L92765-W2A1-U-3000K

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	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	102	99	95	98	95	92	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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2734	2734	2734
5°	2723	2723	2737
10°	2696	2706	2731
15°	2659	2691	2734
20°	2609	2657	2712
25°	2553	2607	2683
30°	2482	2541	2621
35°	2401	2468	2553
40°	2298	2384	2465
45°	2198	2286	2364
50°	2102	2172	2247
55°	1991	2050	2122
60°	1871	1919	1988
65°	1757	1790	1847
70°	1639	1639	1669
75°	1462	1462	1462
80°	1288	1247	1247
85°	1025	985	908



TEST NUMBER: P296506

CATALOG NUMBER: 22RLN-LD5-31-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.7
10°-20°	272.4	10.6
20°-30°	404.6	15.8
30°-40°	469.6	18.3
40°-50°	462.4	18.0
50°-60°	391.3	15.3
60°-70°	279.1	10.9
70°-80°	150.0	5.9
80°-90°	37.8	1.5
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°	772.8	30.2
0°-40°	1242.4	48.5
0°-60°	2096.2	81.8
0°-90°	2563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1008	1008	1008	1012	1013	96
15°	955	957	966	975	981	269
25°	860	863	878	894	904	396
35°	731	732	751	769	777	456
45°	578	581	601	615	621	447
55°	424	426	437	448	452	380
65°	276	276	281	286	290	274
75°	141	139	141	141	141	151
85°	33	32	32	29	29	39
90°	0	0	0	0	0	



TEST NUMBER: P296506

CATALOG NUMBER: 22RLN-LD5-31-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1013.4	1013.4	1014.6	1015.9	1017.2
5°	1008.2	1008.2	1008.2	1012.1	1013.4
7.5°	998.0	999.3	1000.6	1004.4	1007.0
10°	986.5	987.8	990.4	996.7	999.3
12.5°	971.2	975.0	978.9	987.8	991.6
15°	954.6	957.1	966.1	975.0	981.4
17.5°	936.7	938.0	948.2	961.0	963.5
20°	911.1	915.0	927.7	940.5	946.9
22.5°	888.1	890.7	904.7	921.4	926.5
25°	860.0	862.6	877.9	894.5	903.5
27.5°	830.6	833.2	849.8	867.7	874.1
30°	798.7	801.2	817.8	837.0	843.4
32.5°	765.5	768.0	785.9	802.5	811.5
35°	730.9	732.2	751.4	769.3	777.0
37.5°	692.6	696.4	714.3	732.2	741.2
40°	654.3	658.1	678.6	695.2	701.6
42.5°	618.5	623.6	640.2	655.6	661.9
45°	577.6	581.4	600.6	614.7	621.1
47.5°	540.5	544.4	561.0	575.0	578.9
50°	502.2	504.8	518.8	531.6	536.7
52.5°	463.9	465.1	477.9	490.7	494.5
55°	424.3	425.5	437.0	448.5	452.4
57.5°	387.2	387.2	397.4	406.4	410.2
60°	347.6	347.6	356.5	365.5	369.3
62.5°	310.5	310.5	319.5	325.9	331.0
65°	276.0	276.0	281.1	286.2	290.1
67.5°	242.8	239.0	244.1	250.5	249.2
70°	208.3	204.5	208.3	210.9	212.1
72.5°	173.8	171.2	173.8	175.1	177.6
75°	140.6	139.3	140.6	140.6	140.6
77.5°	112.5	108.6	111.2	109.9	108.6
80°	83.1	81.8	80.5	79.2	80.5
82.5°	57.5	56.2	56.2	53.7	53.7
85°	33.2	31.9	31.9	29.4	29.4
87.5°	12.8	12.8	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)