

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: P296509

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296509
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-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

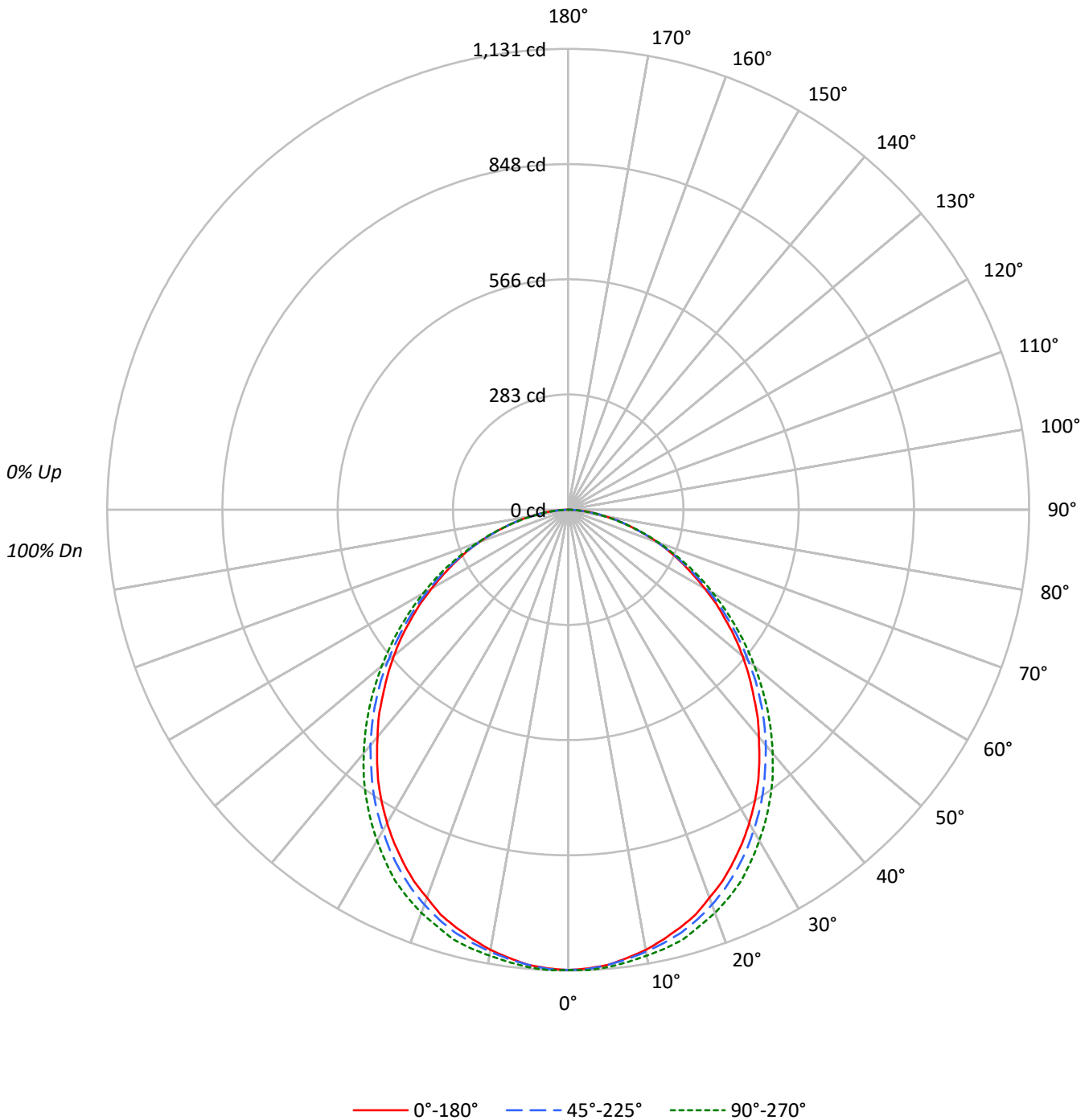
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3040	3040	3040
5°	3029	3029	3044
10°	2998	3009	3036
15°	2957	2993	3040
20°	2901	2954	3015
25°	2839	2899	2983
30°	2760	2826	2914
35°	2670	2745	2838
40°	2556	2650	2740
45°	2444	2542	2628
50°	2338	2415	2498
55°	2213	2280	2360
60°	2080	2134	2210
65°	1954	1990	2054
70°	1822	1822	1856
75°	1625	1625	1625
80°	1432	1387	1387
85°	1139	1096	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.7
10°-20°	302.9	10.6
20°-30°	449.9	15.8
30°-40°	522.2	18.3
40°-50°	514.2	18.0
50°-60°	435.1	15.3
60°-70°	310.3	10.9
70°-80°	166.8	5.9
80°-90°	42.0	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°	859.4	30.2
0°-40°	1381.6	48.5
0°-60°	2330.9	81.8
0°-90°	2850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1121	1121	1121	1125	1127	106
15°	1062	1064	1074	1084	1091	299
25°	956	959	976	995	1005	440
35°	813	814	836	855	864	507
45°	642	646	668	684	691	497
55°	472	473	486	499	503	423
65°	307	307	313	318	323	305
75°	156	155	156	156	156	168
85°	37	36	36	33	33	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1126.8	1126.8	1128.3	1129.7	1131.1
5°	1121.2	1121.2	1121.2	1125.4	1126.8
7.5°	1109.8	1111.2	1112.6	1116.9	1119.7
10°	1097.0	1098.4	1101.3	1108.4	1111.2
12.5°	1079.9	1084.2	1088.5	1098.4	1102.7
15°	1061.5	1064.3	1074.3	1084.2	1091.3
17.5°	1041.6	1043.0	1054.4	1068.6	1071.4
20°	1013.2	1017.4	1031.6	1045.8	1052.9
22.5°	987.6	990.4	1006.1	1024.5	1030.2
25°	956.3	959.2	976.2	994.7	1004.6
27.5°	923.6	926.5	945.0	964.8	971.9
30°	888.1	891.0	909.4	930.7	937.8
32.5°	851.2	854.0	873.9	892.4	902.3
35°	812.8	814.2	835.5	855.4	864.0
37.5°	770.2	774.4	794.3	814.2	824.2
40°	727.5	731.8	754.5	773.0	780.1
42.5°	687.8	693.4	711.9	729.0	736.1
45°	642.3	646.5	667.9	683.5	690.6
47.5°	601.1	605.3	623.8	639.4	643.7
50°	558.4	561.3	576.9	591.1	596.8
52.5°	515.8	517.2	531.4	545.7	549.9
55°	471.8	473.2	486.0	498.8	503.0
57.5°	430.6	430.6	441.9	451.9	456.1
60°	386.5	386.5	396.5	406.4	410.7
62.5°	345.3	345.3	355.2	362.3	368.0
65°	306.9	306.9	312.6	318.3	322.6
67.5°	270.0	265.7	271.4	278.5	277.1
70°	231.6	227.4	231.6	234.5	235.9
72.5°	193.3	190.4	193.3	194.7	197.5
75°	156.3	154.9	156.3	156.3	156.3
77.5°	125.0	120.8	123.6	122.2	120.8
80°	92.4	90.9	89.5	88.1	89.5
82.5°	63.9	62.5	62.5	59.7	59.7
85°	36.9	35.5	35.5	32.7	32.7
87.5°	14.2	14.2	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)