

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: P296088

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7306.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

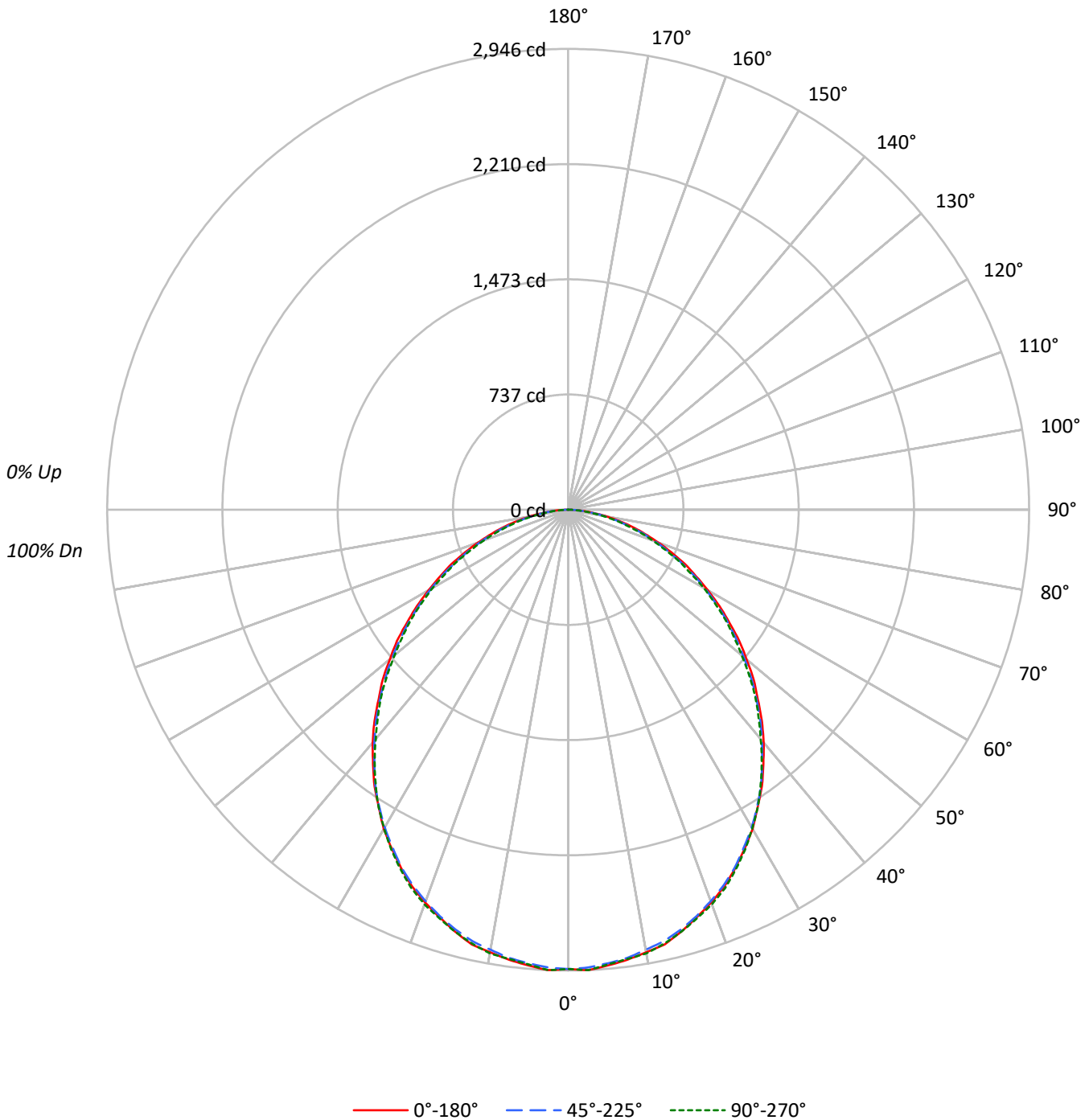
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296088

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P296088

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-4500K

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	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3951	3951	3951
5°	3951	3932	3941
10°	3925	3903	3935
15°	3891	3871	3891
20°	3827	3814	3844
25°	3751	3744	3765
30°	3662	3644	3655
35°	3546	3531	3523
40°	3415	3382	3362
45°	3260	3229	3216
50°	3113	3064	3029
55°	2947	2903	2875
60°	2772	2721	2689
65°	2619	2521	2499
70°	2402	2309	2262
75°	2206	2071	1985
80°	1936	1808	1698
85°	1565	1456	1237



TEST NUMBER: P296088

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	3.8
10°-20°	785.6	10.8
20°-30°	1162.0	15.9
30°-40°	1341.1	18.4
40°-50°	1309.8	17.9
50°-60°	1106.0	15.1
60°-70°	787.8	10.8
70°-80°	426.6	5.8
80°-90°	110.1	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°	2224.6	30.4
0°-40°	3565.7	48.8
0°-60°	5981.6	81.9
0°-90°	7306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2937	2937	2937	2937	2937	
5°	2925	2925	2911	2918	2918	278
15°	2793	2781	2779	2791	2793	787
25°	2527	2512	2522	2531	2536	1163
35°	2159	2142	2150	2142	2145	1347
45°	1714	1699	1697	1690	1690	1325
55°	1256	1240	1237	1226	1226	1126
65°	823	806	792	782	785	811
75°	424	410	398	389	382	449
85°	101	99	94	82	80	119
90°	0	0	0	0	0	



TEST NUMBER: P296088

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2936.8	2936.8	2936.8	2936.8	2936.8
2.5°	2946.2	2934.4	2929.7	2932.1	2946.2
5°	2925.0	2925.0	2910.9	2917.9	2917.9
7.5°	2901.4	2903.8	2889.7	2901.4	2896.7
10°	2873.2	2866.1	2856.7	2875.5	2880.2
12.5°	2847.2	2830.7	2826.0	2837.8	2840.2
15°	2793.0	2781.2	2778.9	2790.7	2793.0
17.5°	2731.7	2734.1	2724.7	2741.2	2738.8
20°	2672.8	2668.1	2663.4	2682.2	2684.6
22.5°	2606.8	2592.7	2597.4	2613.9	2618.6
25°	2526.7	2512.5	2522.0	2531.4	2536.1
27.5°	2441.8	2434.8	2432.4	2444.2	2448.9
30°	2357.0	2345.2	2345.2	2359.3	2352.3
32.5°	2253.3	2243.9	2248.6	2253.3	2255.6
35°	2159.0	2142.5	2149.6	2142.5	2144.9
37.5°	2048.2	2036.4	2034.1	2031.7	2031.7
40°	1944.5	1935.1	1925.7	1925.7	1913.9
42.5°	1831.4	1819.6	1814.9	1807.8	1800.7
45°	1713.5	1699.4	1697.0	1690.0	1690.0
47.5°	1607.5	1586.3	1583.9	1569.8	1569.8
50°	1487.3	1473.1	1463.7	1454.3	1447.2
52.5°	1378.8	1364.7	1350.6	1341.1	1334.1
55°	1256.3	1239.8	1237.4	1225.6	1225.6
57.5°	1145.5	1131.4	1121.9	1107.8	1110.1
60°	1030.0	1015.9	1011.1	999.4	999.4
62.5°	921.6	909.8	902.7	890.9	881.5
65°	822.6	806.1	791.9	782.5	784.9
67.5°	714.2	695.3	688.2	678.8	671.7
70°	610.5	598.7	586.9	575.1	575.1
72.5°	513.8	502.0	495.0	480.8	476.1
75°	424.3	410.1	398.3	388.9	381.8
77.5°	334.7	320.6	313.5	301.7	301.7
80°	249.8	240.4	233.3	228.6	219.2
82.5°	172.1	167.3	160.3	153.2	146.1
85°	101.4	99.0	94.3	82.5	80.1
87.5°	40.1	40.1	35.4	33.0	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)