

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: P295941

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295941
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-LD5-74-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7730.0 lumens
Efficiency: N/A
Efficacy: 136.5 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

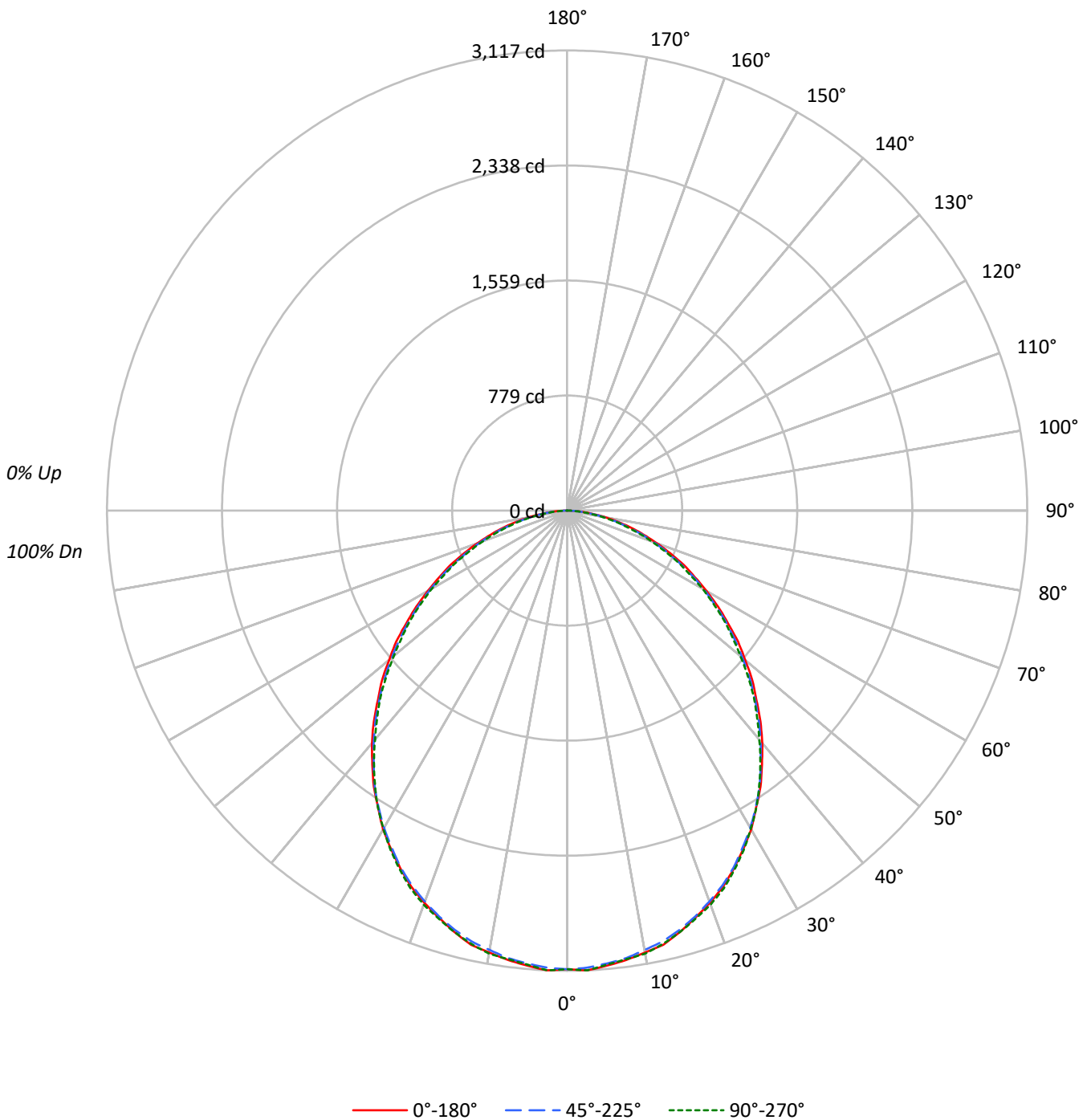
Input Watts (W): 56.637
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4181	4181	4181
5°	4180	4160	4170
10°	4153	4129	4163
15°	4116	4096	4116
20°	4049	4035	4067
25°	3969	3961	3984
30°	3874	3855	3867
35°	3752	3736	3727
40°	3614	3579	3557
45°	3450	3416	3402
50°	3294	3242	3205
55°	3118	3071	3042
60°	2933	2879	2845
65°	2771	2668	2644
70°	2541	2443	2394
75°	2334	2191	2100
80°	2048	1913	1797
85°	1655	1541	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	3.8
10°-20°	831.1	10.8
20°-30°	1229.4	15.9
30°-40°	1418.9	18.4
40°-50°	1385.8	17.9
50°-60°	1170.2	15.1
60°-70°	833.5	10.8
70°-80°	451.3	5.8
80°-90°	116.5	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°	2353.8	30.4
0°-40°	3772.6	48.8
0°-60°	6328.7	81.9
0°-90°	7730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3095	3095	3080	3087	3087	294
15°	2955	2943	2940	2953	2955	832
25°	2673	2658	2668	2678	2683	1231
35°	2284	2267	2274	2267	2269	1426
45°	1813	1798	1796	1788	1788	1402
55°	1329	1312	1309	1297	1297	1192
65°	870	853	838	828	830	858
75°	449	434	421	412	404	475
85°	107	105	100	87	85	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3107.2	3107.2	3107.2	3107.2	3107.2
2.5°	3117.2	3104.7	3099.8	3102.3	3117.2
5°	3094.8	3094.8	3079.8	3087.3	3087.3
7.5°	3069.8	3072.3	3057.4	3069.8	3064.8
10°	3039.9	3032.4	3022.5	3042.4	3047.4
12.5°	3012.5	2995.0	2990.0	3002.5	3005.0
15°	2955.1	2942.7	2940.2	2952.6	2955.1
17.5°	2890.3	2892.8	2882.8	2900.3	2897.8
20°	2827.9	2822.9	2818.0	2837.9	2840.4
22.5°	2758.1	2743.1	2748.1	2765.6	2770.6
25°	2673.3	2658.4	2668.3	2678.3	2683.3
27.5°	2583.5	2576.1	2573.6	2586.0	2591.0
30°	2493.8	2481.3	2481.3	2496.3	2488.8
32.5°	2384.0	2374.1	2379.1	2384.0	2386.5
35°	2284.3	2266.8	2274.3	2266.8	2269.3
37.5°	2167.1	2154.6	2152.1	2149.6	2149.6
40°	2057.4	2047.4	2037.4	2037.4	2024.9
42.5°	1937.7	1925.2	1920.2	1912.7	1905.2
45°	1813.0	1798.0	1795.5	1788.0	1788.0
47.5°	1700.8	1678.3	1675.8	1660.9	1660.9
50°	1573.6	1558.6	1548.6	1538.7	1531.2
52.5°	1458.9	1443.9	1428.9	1419.0	1411.5
55°	1329.2	1311.7	1309.2	1296.8	1296.8
57.5°	1212.0	1197.0	1187.0	1172.1	1174.6
60°	1089.8	1074.8	1069.8	1057.4	1057.4
62.5°	975.1	962.6	955.1	942.6	932.7
65°	870.3	852.9	837.9	827.9	830.4
67.5°	755.6	735.7	728.2	718.2	710.7
70°	645.9	633.4	620.9	608.5	608.5
72.5°	543.6	531.2	523.7	508.7	503.7
75°	448.9	433.9	421.4	411.5	404.0
77.5°	354.1	339.2	331.7	319.2	319.2
80°	264.3	254.4	246.9	241.9	231.9
82.5°	182.0	177.1	169.6	162.1	154.6
85°	107.2	104.7	99.8	87.3	84.8
87.5°	42.4	42.4	37.4	34.9	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)