

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: P296082

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296082
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7008.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

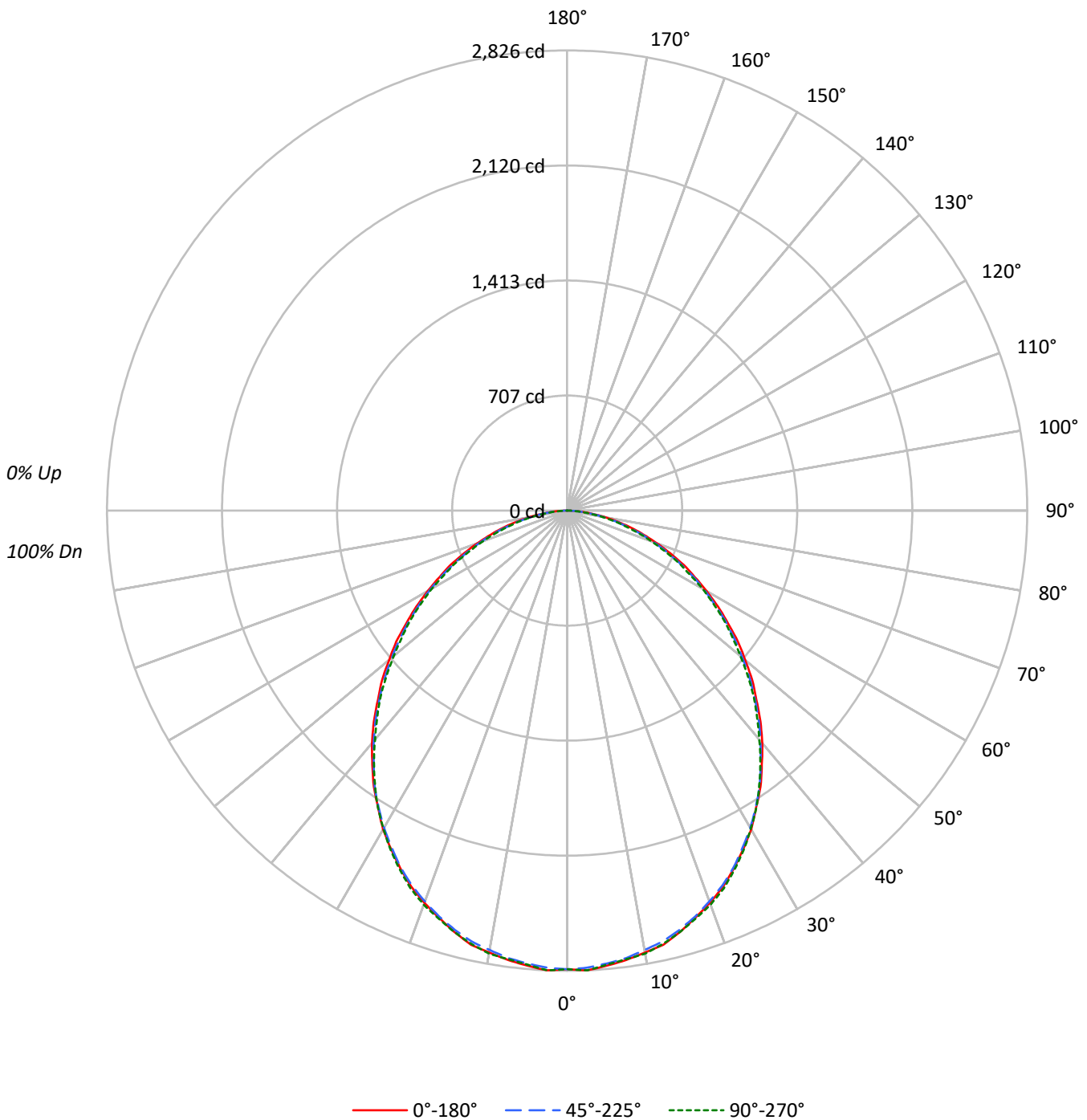
Input Watts (W): 56.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3790	3790	3790
5°	3789	3771	3780
10°	3765	3744	3775
15°	3732	3713	3732
20°	3671	3658	3687
25°	3598	3591	3612
30°	3512	3495	3505
35°	3402	3387	3379
40°	3276	3244	3224
45°	3127	3097	3084
50°	2986	2939	2906
55°	2827	2784	2758
60°	2659	2610	2580
65°	2512	2418	2397
70°	2304	2215	2170
75°	2116	1986	1904
80°	1857	1734	1629
85°	1501	1396	1187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	3.8
10°-20°	753.5	10.8
20°-30°	1114.6	15.9
30°-40°	1286.4	18.4
40°-50°	1256.4	17.9
50°-60°	1060.9	15.1
60°-70°	755.7	10.8
70°-80°	409.2	5.8
80°-90°	105.6	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°	2133.9	30.4
0°-40°	3420.3	48.8
0°-60°	5737.6	81.9
0°-90°	7008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2806	2806	2792	2799	2799	266
15°	2679	2668	2666	2677	2679	755
25°	2424	2410	2419	2428	2433	1116
35°	2071	2055	2062	2055	2057	1292
45°	1644	1630	1628	1621	1621	1271
55°	1205	1189	1187	1176	1176	1080
65°	789	773	760	751	753	778
75°	407	393	382	373	366	431
85°	97	95	90	79	77	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2826.1	2814.8	2810.2	2812.5	2826.1
5°	2805.7	2805.7	2792.1	2798.9	2798.9
7.5°	2783.1	2785.4	2771.8	2783.1	2778.6
10°	2756.0	2749.2	2740.1	2758.2	2762.8
12.5°	2731.1	2715.3	2710.8	2722.1	2724.3
15°	2679.1	2667.8	2665.5	2676.8	2679.1
17.5°	2620.3	2622.6	2613.5	2629.4	2627.1
20°	2563.8	2559.3	2554.8	2572.8	2575.1
22.5°	2500.5	2486.9	2491.5	2507.3	2511.8
25°	2423.6	2410.1	2419.1	2428.2	2432.7
27.5°	2342.2	2335.5	2333.2	2344.5	2349.0
30°	2260.8	2249.5	2249.5	2263.1	2256.3
32.5°	2161.4	2152.3	2156.8	2161.4	2163.6
35°	2070.9	2055.1	2061.9	2055.1	2057.4
37.5°	1964.7	1953.4	1951.1	1948.9	1948.9
40°	1865.2	1856.2	1847.1	1847.1	1835.8
42.5°	1756.7	1745.4	1740.9	1734.1	1727.3
45°	1643.6	1630.1	1627.8	1621.0	1621.0
47.5°	1541.9	1521.6	1519.3	1505.7	1505.7
50°	1426.6	1413.0	1404.0	1394.9	1388.2
52.5°	1322.6	1309.0	1295.5	1286.4	1279.6
55°	1205.0	1189.2	1186.9	1175.6	1175.6
57.5°	1098.8	1085.2	1076.2	1062.6	1064.9
60°	988.0	974.4	969.9	958.6	958.6
62.5°	884.0	872.7	865.9	854.6	845.6
65°	789.0	773.2	759.6	750.6	752.9
67.5°	685.0	667.0	660.2	651.1	644.3
70°	585.6	574.3	563.0	551.6	551.6
72.5°	492.9	481.6	474.8	461.2	456.7
75°	407.0	393.4	382.1	373.0	366.3
77.5°	321.0	307.5	300.7	289.4	289.4
80°	239.6	230.6	223.8	219.3	210.3
82.5°	165.0	160.5	153.7	147.0	140.2
85°	97.2	95.0	90.4	79.1	76.9
87.5°	38.4	38.4	33.9	31.7	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)