

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: P296072

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296072
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-LD5-67-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6286.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

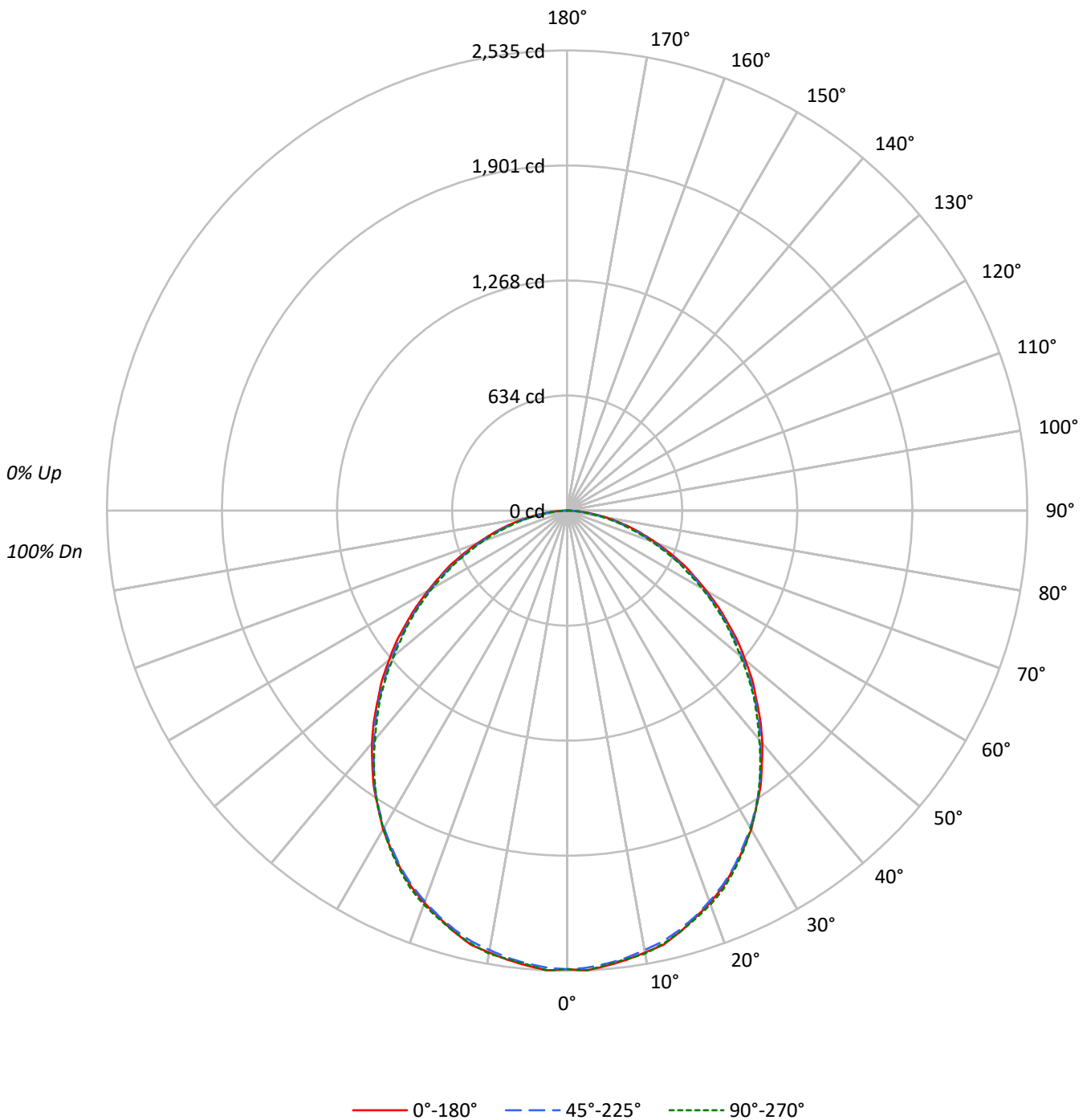
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3400	3400	3400
5°	3399	3383	3391
10°	3377	3358	3386
15°	3347	3330	3347
20°	3293	3281	3307
25°	3227	3221	3239
30°	3151	3135	3144
35°	3051	3038	3031
40°	2938	2910	2892
45°	2805	2778	2767
50°	2678	2636	2606
55°	2536	2498	2474
60°	2385	2341	2314
65°	2253	2169	2150
70°	2066	1987	1947
75°	1897	1782	1708
80°	1666	1556	1461
85°	1346	1252	1064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	3.8
10°-20°	675.9	10.8
20°-30°	999.8	15.9
30°-40°	1153.8	18.4
40°-50°	1126.9	17.9
50°-60°	951.6	15.1
60°-70°	677.8	10.8
70°-80°	367.0	5.8
80°-90°	94.7	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°	1914.1	30.4
0°-40°	3067.9	48.8
0°-60°	5146.5	81.9
0°-90°	6286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2517	2517	2504	2511	2511	239
15°	2403	2393	2391	2401	2403	677
25°	2174	2162	2170	2178	2182	1001
35°	1858	1843	1850	1843	1845	1159
45°	1474	1462	1460	1454	1454	1140
55°	1081	1067	1065	1054	1054	969
65°	708	694	681	673	675	698
75°	365	353	343	335	328	386
85°	87	85	81	71	69	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2526.8	2526.8	2526.8	2526.8	2526.8
2.5°	2534.9	2524.8	2520.7	2522.7	2534.9
5°	2516.7	2516.7	2504.5	2510.6	2510.6
7.5°	2496.4	2498.4	2486.2	2496.4	2492.3
10°	2472.0	2466.0	2457.8	2474.1	2478.1
12.5°	2449.7	2435.5	2431.5	2441.6	2443.6
15°	2403.1	2393.0	2390.9	2401.1	2403.1
17.5°	2350.4	2352.4	2344.3	2358.5	2356.4
20°	2299.7	2295.6	2291.6	2307.8	2309.8
22.5°	2242.9	2230.7	2234.8	2249.0	2253.0
25°	2173.9	2161.8	2169.9	2178.0	2182.0
27.5°	2100.9	2094.8	2092.8	2103.0	2107.0
30°	2027.9	2017.8	2017.8	2030.0	2023.9
32.5°	1938.7	1930.6	1934.6	1938.7	1940.7
35°	1857.6	1843.4	1849.5	1843.4	1845.4
37.5°	1762.3	1752.1	1750.1	1748.1	1748.1
40°	1673.0	1664.9	1656.8	1656.8	1646.7
42.5°	1575.7	1565.6	1561.5	1555.4	1549.3
45°	1474.3	1462.1	1460.1	1454.0	1454.0
47.5°	1383.0	1364.8	1362.8	1350.6	1350.6
50°	1279.6	1267.5	1259.3	1251.2	1245.1
52.5°	1186.3	1174.2	1162.0	1153.9	1147.8
55°	1080.9	1066.7	1064.7	1054.5	1054.5
57.5°	985.6	973.4	965.3	953.1	955.2
60°	886.2	874.0	870.0	859.8	859.8
62.5°	792.9	782.8	776.7	766.6	758.4
65°	707.7	693.5	681.4	673.3	675.3
67.5°	614.5	598.2	592.2	584.0	578.0
70°	525.2	515.1	505.0	494.8	494.8
72.5°	442.1	431.9	425.9	413.7	409.6
75°	365.0	352.9	342.7	334.6	328.5
77.5°	288.0	275.8	269.7	259.6	259.6
80°	215.0	206.8	200.8	196.7	188.6
82.5°	148.0	144.0	137.9	131.8	125.7
85°	87.2	85.2	81.1	71.0	68.9
87.5°	34.5	34.5	30.4	28.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)