

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: P296071

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296071
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6191.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

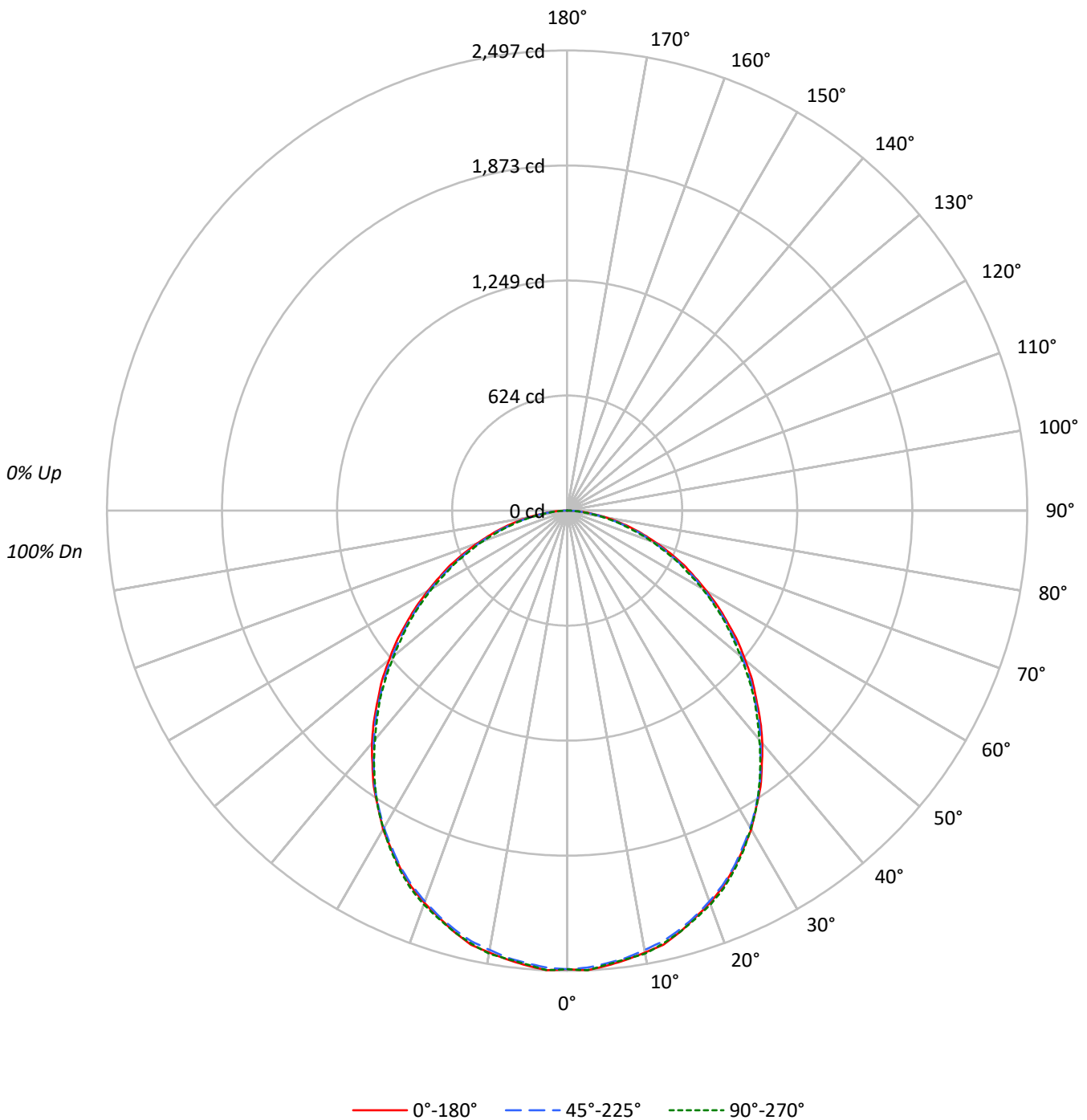
Input Watts (W): 49.755
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3348	3348	3348
5°	3348	3331	3340
10°	3326	3307	3335
15°	3297	3280	3297
20°	3243	3232	3257
25°	3179	3173	3191
30°	3103	3088	3097
35°	3005	2992	2985
40°	2894	2866	2849
45°	2763	2736	2725
50°	2638	2596	2567
55°	2497	2460	2436
60°	2349	2306	2279
65°	2219	2137	2117
70°	2035	1956	1917
75°	1869	1755	1682
80°	1640	1532	1439
85°	1326	1233	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	3.8
10°-20°	665.7	10.8
20°-30°	984.7	15.9
30°-40°	1136.4	18.4
40°-50°	1109.9	17.9
50°-60°	937.2	15.1
60°-70°	667.6	10.8
70°-80°	361.4	5.8
80°-90°	93.3	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°	1885.1	30.4
0°-40°	3021.5	48.8
0°-60°	5068.7	81.9
0°-90°	6191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2479	2479	2467	2473	2473	235
15°	2367	2357	2355	2365	2367	667
25°	2141	2129	2137	2145	2149	986
35°	1830	1816	1822	1816	1818	1142
45°	1452	1440	1438	1432	1432	1123
55°	1064	1051	1049	1039	1039	954
65°	697	683	671	663	665	687
75°	360	348	338	330	324	380
85°	86	84	80	70	68	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2488.6	2488.6	2488.6	2488.6	2488.6
2.5°	2496.6	2486.6	2482.6	2484.6	2496.6
5°	2478.6	2478.6	2466.6	2472.6	2472.6
7.5°	2458.6	2460.6	2448.7	2458.6	2454.7
10°	2434.7	2428.7	2420.7	2436.7	2440.7
12.5°	2412.7	2398.7	2394.7	2404.7	2406.7
15°	2366.8	2356.8	2354.8	2364.8	2366.8
17.5°	2314.8	2316.8	2308.9	2322.8	2320.8
20°	2264.9	2260.9	2256.9	2272.9	2274.9
22.5°	2209.0	2197.0	2201.0	2215.0	2219.0
25°	2141.1	2129.1	2137.1	2145.1	2149.1
27.5°	2069.2	2063.2	2061.2	2071.2	2075.2
30°	1997.3	1987.3	1987.3	1999.3	1993.3
32.5°	1909.4	1901.4	1905.4	1909.4	1911.4
35°	1829.5	1815.5	1821.5	1815.5	1817.5
37.5°	1735.6	1725.6	1723.6	1721.7	1721.7
40°	1647.8	1639.8	1631.8	1631.8	1621.8
42.5°	1551.9	1541.9	1537.9	1531.9	1525.9
45°	1452.0	1440.0	1438.0	1432.0	1432.0
47.5°	1362.1	1344.2	1342.2	1330.2	1330.2
50°	1260.3	1248.3	1240.3	1232.3	1226.3
52.5°	1168.4	1156.4	1144.4	1136.5	1130.5
55°	1064.5	1050.6	1048.6	1038.6	1038.6
57.5°	970.7	958.7	950.7	938.7	940.7
60°	872.8	860.8	856.8	846.8	846.8
62.5°	780.9	770.9	765.0	755.0	747.0
65°	697.0	683.1	671.1	663.1	665.1
67.5°	605.2	589.2	583.2	575.2	569.2
70°	517.3	507.3	497.3	487.3	487.3
72.5°	435.4	425.4	419.4	407.4	403.4
75°	359.5	347.5	337.5	329.6	323.6
77.5°	283.6	271.6	265.6	255.7	255.7
80°	211.7	203.7	197.7	193.7	185.7
82.5°	145.8	141.8	135.8	129.8	123.8
85°	85.9	83.9	79.9	69.9	67.9
87.5°	34.0	34.0	30.0	28.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)