

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: P296068

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296068
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5730.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

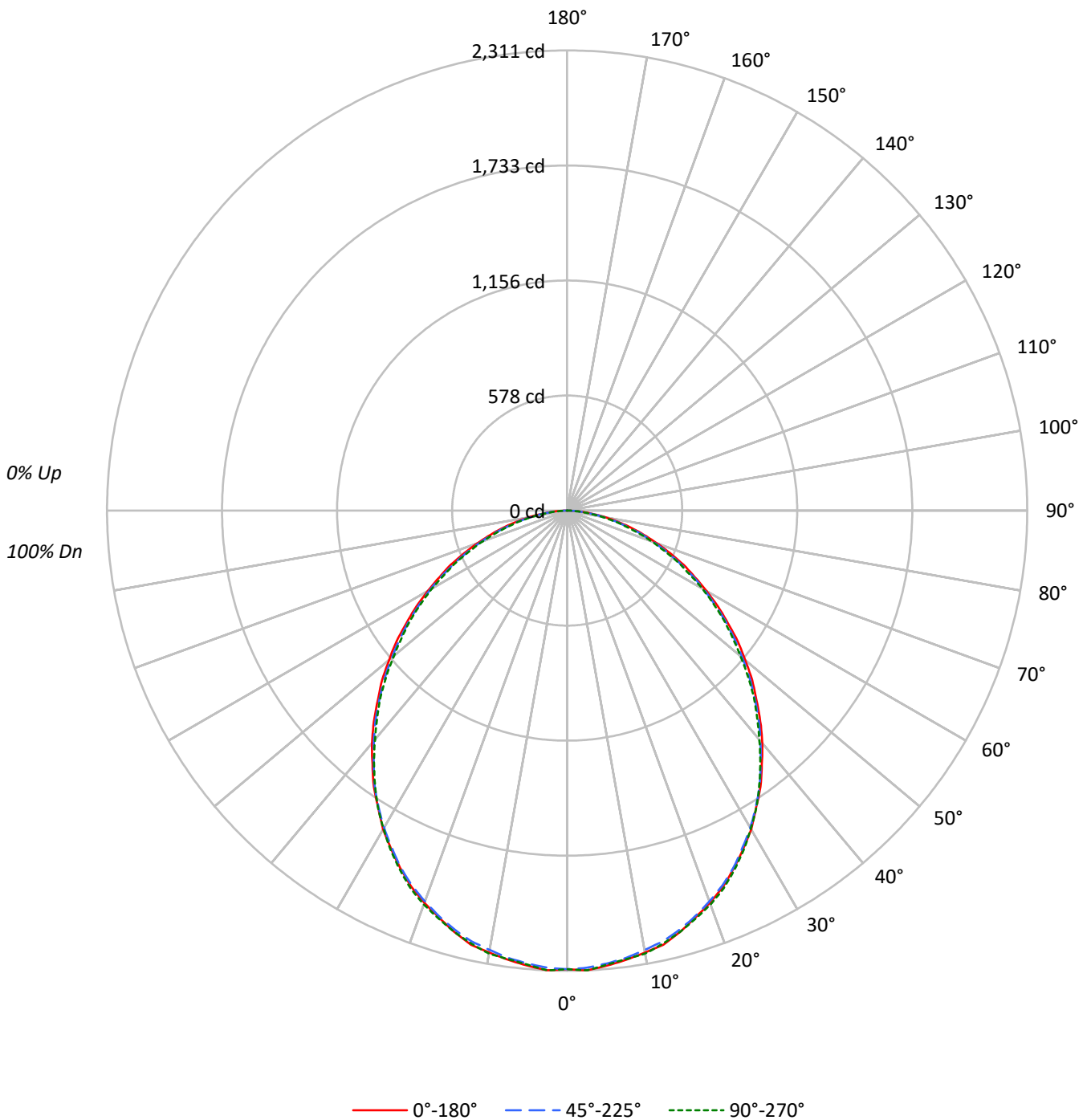
Input Watts (W): 48.732
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3099	3099	3099
5°	3098	3083	3091
10°	3079	3061	3086
15°	3051	3036	3051
20°	3002	2991	3015
25°	2942	2937	2953
30°	2872	2858	2866
35°	2781	2769	2763
40°	2679	2653	2636
45°	2557	2533	2522
50°	2442	2403	2376
55°	2311	2277	2255
60°	2174	2134	2109
65°	2054	1977	1960
70°	1884	1811	1774
75°	1730	1624	1557
80°	1518	1418	1332
85°	1227	1141	971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	3.8
10°-20°	616.1	10.8
20°-30°	911.3	15.9
30°-40°	1051.8	18.4
40°-50°	1027.3	17.9
50°-60°	867.4	15.1
60°-70°	617.9	10.8
70°-80°	334.5	5.8
80°-90°	86.3	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°	1744.8	30.4
0°-40°	2796.5	48.8
0°-60°	4691.3	81.9
0°-90°	5730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2294	2294	2283	2288	2288	218
15°	2190	2181	2179	2189	2190	617
25°	1982	1971	1978	1985	1989	912
35°	1693	1680	1686	1680	1682	1057
45°	1344	1333	1331	1325	1325	1039
55°	985	972	970	961	961	883
65°	645	632	621	614	616	636
75°	333	322	312	305	300	352
85°	80	78	74	65	63	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2303.3	2303.3	2303.3	2303.3	2303.3
2.5°	2310.7	2301.4	2297.8	2299.6	2310.7
5°	2294.1	2294.1	2283.0	2288.5	2288.5
7.5°	2275.6	2277.4	2266.3	2275.6	2271.9
10°	2253.4	2247.8	2240.4	2255.2	2258.9
12.5°	2233.1	2220.1	2216.4	2225.7	2227.5
15°	2190.5	2181.3	2179.4	2188.7	2190.5
17.5°	2142.5	2144.3	2136.9	2149.9	2148.0
20°	2096.3	2092.6	2088.9	2103.7	2105.5
22.5°	2044.5	2033.4	2037.1	2050.0	2053.7
25°	1981.6	1970.6	1978.0	1985.3	1989.0
27.5°	1915.1	1909.6	1907.7	1916.9	1920.6
30°	1848.6	1839.3	1839.3	1850.4	1844.9
32.5°	1767.2	1759.8	1763.5	1767.2	1769.1
35°	1693.3	1680.3	1685.9	1680.3	1682.2
37.5°	1606.4	1597.1	1595.3	1593.5	1593.5
40°	1525.1	1517.7	1510.3	1510.3	1501.0
42.5°	1436.3	1427.1	1423.4	1417.8	1412.3
45°	1343.9	1332.8	1331.0	1325.4	1325.4
47.5°	1260.7	1244.1	1242.2	1231.1	1231.1
50°	1166.4	1155.3	1148.0	1140.6	1135.0
52.5°	1081.4	1070.3	1059.2	1051.8	1046.3
55°	985.3	972.3	970.5	961.2	961.2
57.5°	898.4	887.3	879.9	868.8	870.7
60°	807.8	796.7	793.0	783.8	783.8
62.5°	722.8	713.5	708.0	698.8	691.4
65°	645.1	632.2	621.1	613.7	615.6
67.5°	560.1	545.3	539.8	532.4	526.8
70°	478.8	469.5	460.3	451.0	451.0
72.5°	403.0	393.7	388.2	377.1	373.4
75°	332.7	321.6	312.4	305.0	299.5
77.5°	262.5	251.4	245.9	236.6	236.6
80°	195.9	188.6	183.0	179.3	171.9
82.5°	134.9	131.2	125.7	120.2	114.6
85°	79.5	77.6	73.9	64.7	62.9
87.5°	31.4	31.4	27.7	25.9	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)