

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: P229765

Luminaire Tested: **24RLN-LD5-80-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

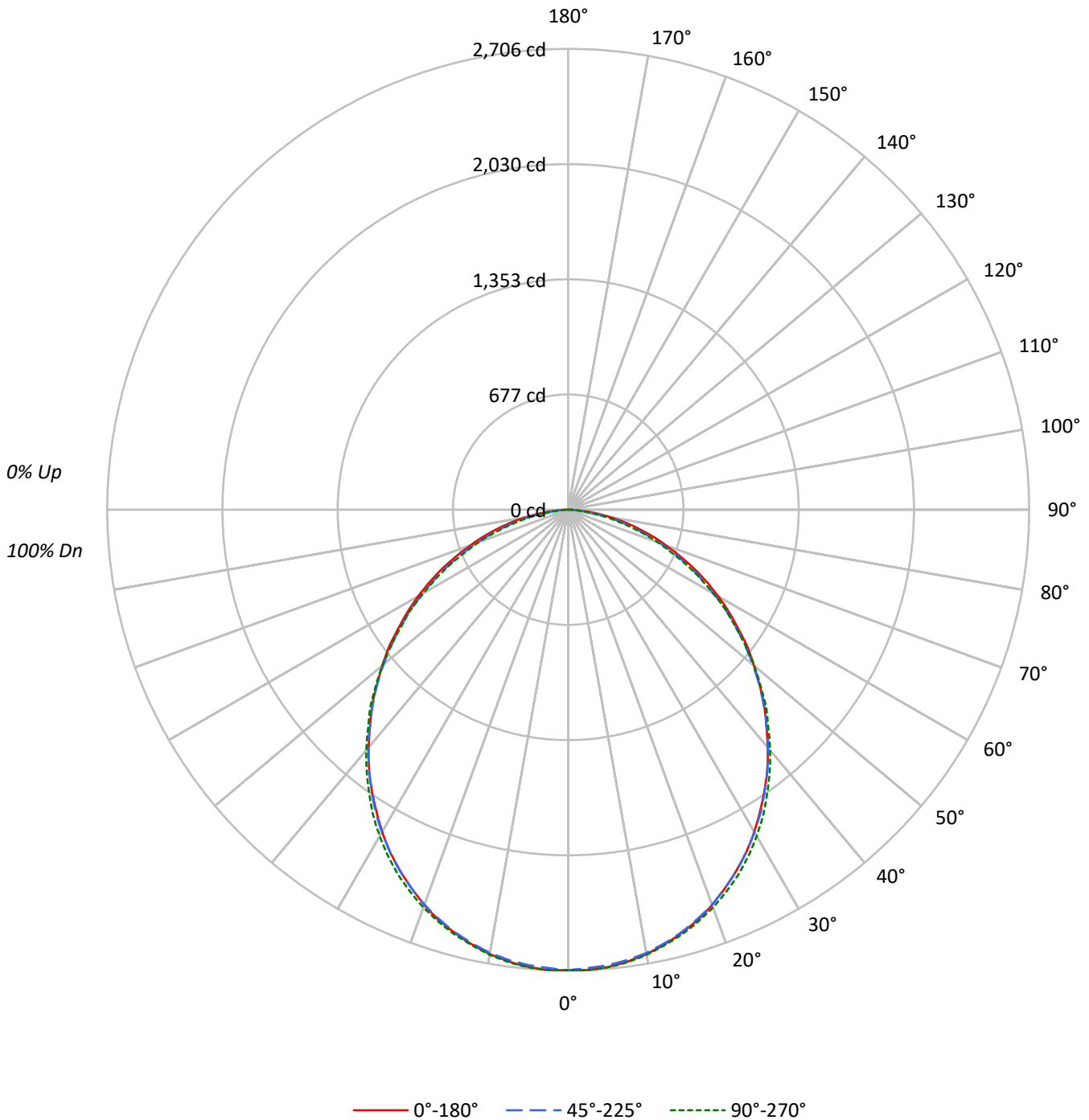
Lumens per Lamp: N/A
Luminaire Lumens: 6937.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 67.45
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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4141	4141	4141
5°	4144	4127	4147
10°	4120	4110	4127
15°	4080	4073	4094
20°	4027	4023	4051
25°	3950	3954	3994
30°	3863	3867	3914
35°	3758	3762	3807
40°	3643	3652	3687
45°	3526	3517	3559
50°	3390	3370	3396
55°	3252	3211	3199
60°	3115	3022	3008
65°	2942	2816	2776
70°	2726	2561	2511
75°	2506	2260	2144
80°	2195	1887	1713
85°	1803	1304	1035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.7
10°-20°	725.7	10.5
20°-30°	1079.8	15.6
30°-40°	1261.6	18.2
40°-50°	1254.1	18.1
50°-60°	1077.6	15.5
60°-70°	773.9	11.2
70°-80°	412.2	5.9
80°-90°	96.6	1.4
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°	2061.0	29.7
0°-40°	3322.7	47.9
0°-60°	5654.4	81.5
0°-90°	6937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2704	2704	2704	2704	2704	
5°	2695	2691	2684	2693	2697	256
15°	2573	2573	2568	2577	2582	726
25°	2337	2337	2339	2357	2363	1076
35°	2010	2006	2012	2034	2036	1257
45°	1628	1615	1624	1632	1643	1253
55°	1218	1202	1202	1202	1198	1092
65°	812	788	777	768	766	803
75°	423	399	382	371	362	451
85°	103	87	74	61	59	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2703.8	2703.8	2703.8	2703.8	2703.8
2.5°	2706.0	2701.6	2692.9	2703.8	2706.0
5°	2695.1	2690.7	2684.2	2692.9	2697.3
7.5°	2675.4	2671.1	2666.7	2675.4	2679.8
10°	2649.3	2647.1	2642.7	2653.6	2653.6
12.5°	2614.3	2612.2	2607.8	2618.7	2618.7
15°	2572.9	2572.9	2568.5	2577.2	2581.6
17.5°	2527.1	2524.9	2520.5	2531.4	2535.8
20°	2470.3	2470.3	2468.1	2481.2	2485.6
22.5°	2404.8	2404.8	2404.8	2422.3	2426.7
25°	2337.2	2337.2	2339.4	2356.8	2363.4
27.5°	2265.2	2263.0	2265.2	2284.8	2291.4
30°	2184.4	2180.1	2186.6	2206.3	2212.8
32.5°	2097.1	2092.8	2103.7	2121.2	2129.9
35°	2009.9	2005.5	2012.0	2033.9	2036.0
37.5°	1920.4	1909.5	1920.4	1940.0	1942.2
40°	1822.2	1813.5	1826.5	1835.3	1844.0
42.5°	1721.8	1717.4	1724.0	1739.3	1739.3
45°	1628.0	1614.9	1623.6	1632.3	1643.2
47.5°	1523.2	1516.7	1521.0	1527.6	1531.9
50°	1422.8	1411.9	1414.1	1420.6	1425.0
52.5°	1329.0	1307.2	1307.2	1311.5	1311.5
55°	1217.7	1202.4	1202.4	1202.4	1198.1
57.5°	1119.5	1099.9	1097.7	1097.7	1097.7
60°	1016.9	992.9	986.4	986.4	982.0
62.5°	914.4	892.5	883.8	875.1	875.1
65°	811.8	787.8	776.9	768.2	766.0
67.5°	707.1	689.6	676.5	665.6	654.7
70°	608.8	589.2	571.8	560.8	560.8
72.5°	517.2	495.4	477.9	464.8	458.3
75°	423.4	399.4	381.9	371.0	362.3
77.5°	340.4	314.2	296.8	281.5	272.8
80°	248.8	229.1	213.9	198.6	194.2
82.5°	172.4	157.1	139.7	128.8	124.4
85°	102.6	87.3	74.2	61.1	58.9
87.5°	41.5	30.6	24.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)