

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: P229755

Luminaire Tested: **24RLN-LD5-80-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229755
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-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

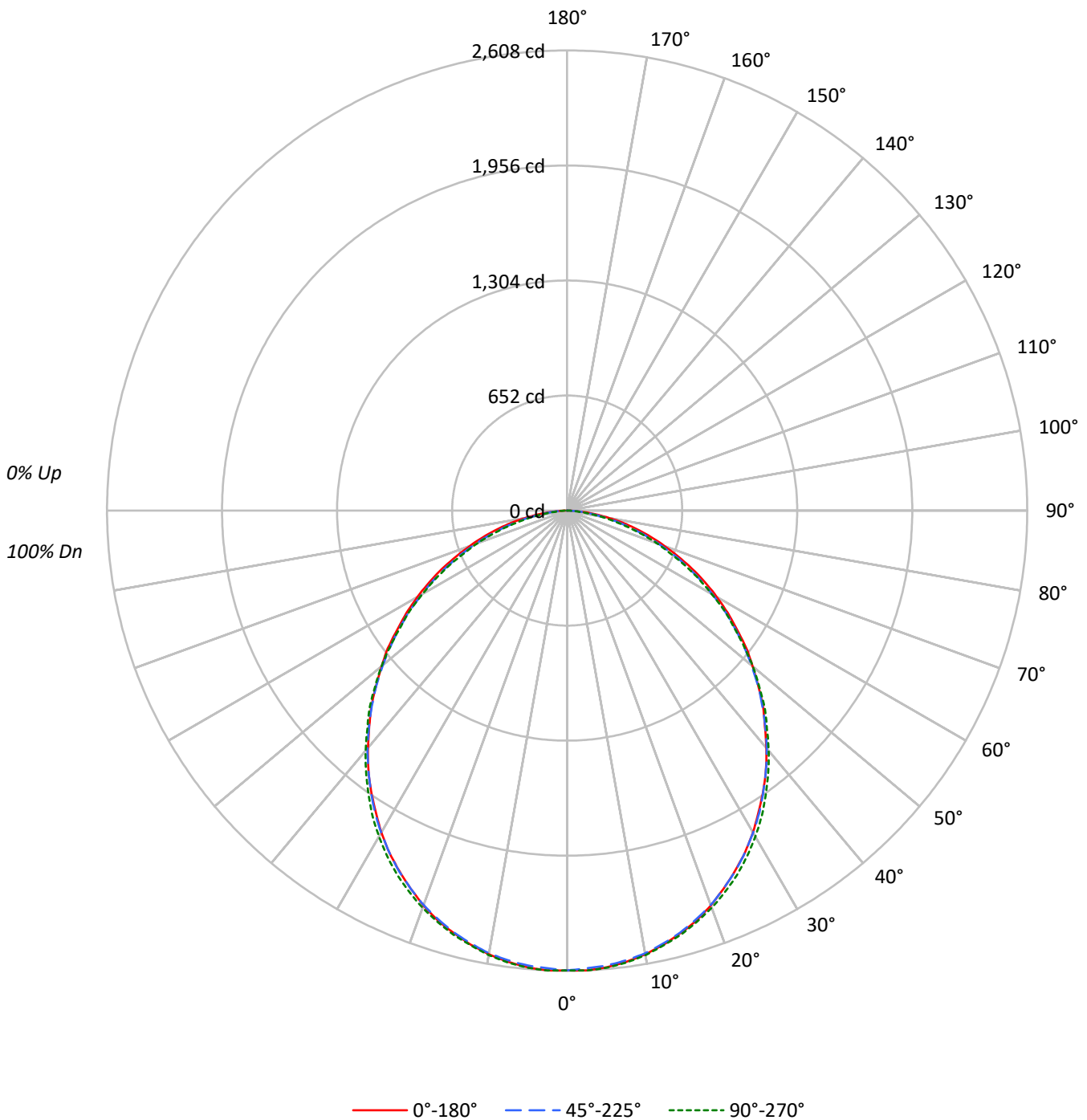
Lumens per Lamp: N/A
Luminaire Lumens: 6687.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3992	3992	3992
5°	3994	3978	3998
10°	3972	3962	3978
15°	3933	3926	3946
20°	3881	3878	3905
25°	3808	3811	3850
30°	3724	3728	3773
35°	3623	3627	3670
40°	3512	3520	3554
45°	3399	3390	3431
50°	3268	3248	3273
55°	3134	3095	3084
60°	3003	2913	2900
65°	2836	2714	2676
70°	2628	2468	2421
75°	2415	2178	2067
80°	2115	1819	1651
85°	1738	1257	998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	3.7
10°-20°	699.6	10.5
20°-30°	1040.9	15.6
30°-40°	1216.1	18.2
40°-50°	1208.9	18.1
50°-60°	1038.8	15.5
60°-70°	746.0	11.2
70°-80°	397.3	5.9
80°-90°	93.1	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°	1986.8	29.7
0°-40°	3202.9	47.9
0°-60°	5450.6	81.5
0°-90°	6687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2606	2606	2606	2606	2606	
5°	2598	2594	2587	2596	2600	247
15°	2480	2480	2476	2484	2489	699
25°	2253	2253	2255	2272	2278	1038
35°	1937	1933	1940	1961	1963	1212
45°	1569	1557	1565	1574	1584	1208
55°	1174	1159	1159	1159	1155	1053
65°	782	759	749	740	738	774
75°	408	385	368	358	349	435
85°	99	84	72	59	57	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2606.4	2606.4	2606.4	2606.4	2606.4
2.5°	2608.5	2604.3	2595.9	2606.4	2608.5
5°	2598.0	2593.8	2587.4	2595.9	2600.1
7.5°	2579.0	2574.8	2570.6	2579.0	2583.2
10°	2553.8	2551.7	2547.5	2558.0	2558.0
12.5°	2520.1	2518.0	2513.8	2524.3	2524.3
15°	2480.2	2480.2	2476.0	2484.4	2488.6
17.5°	2436.0	2433.9	2429.7	2440.2	2444.4
20°	2381.3	2381.3	2379.2	2391.8	2396.0
22.5°	2318.2	2318.2	2318.2	2335.0	2339.2
25°	2253.0	2253.0	2255.1	2271.9	2278.2
27.5°	2183.5	2181.4	2183.5	2202.5	2208.8
30°	2105.7	2101.5	2107.8	2126.8	2133.1
32.5°	2021.6	2017.4	2027.9	2044.7	2053.1
35°	1937.4	1933.2	1939.5	1960.6	1962.7
37.5°	1851.2	1840.7	1851.2	1870.1	1872.2
40°	1756.5	1748.1	1760.7	1769.1	1777.6
42.5°	1659.7	1655.5	1661.9	1676.6	1676.6
45°	1569.3	1556.7	1565.1	1573.5	1584.0
47.5°	1468.3	1462.0	1466.2	1472.5	1476.7
50°	1371.6	1361.0	1363.1	1369.5	1373.7
52.5°	1281.1	1260.1	1260.1	1264.3	1264.3
55°	1173.8	1159.1	1159.1	1159.1	1154.9
57.5°	1079.2	1060.2	1058.1	1058.1	1058.1
60°	980.3	957.1	950.8	950.8	946.6
62.5°	881.4	860.4	852.0	843.5	843.5
65°	782.5	759.4	748.9	740.5	738.4
67.5°	681.6	664.7	652.1	641.6	631.1
70°	586.9	568.0	551.1	540.6	540.6
72.5°	498.6	477.5	460.7	448.1	441.8
75°	408.1	385.0	368.1	357.6	349.2
77.5°	328.2	302.9	286.1	271.4	263.0
80°	239.8	220.9	206.2	191.4	187.2
82.5°	166.2	151.5	134.6	124.1	119.9
85°	98.9	84.1	71.5	58.9	56.8
87.5°	40.0	29.5	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)