

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: P229875

Luminaire Tested: **24RLN-LD5-80-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
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-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6605.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

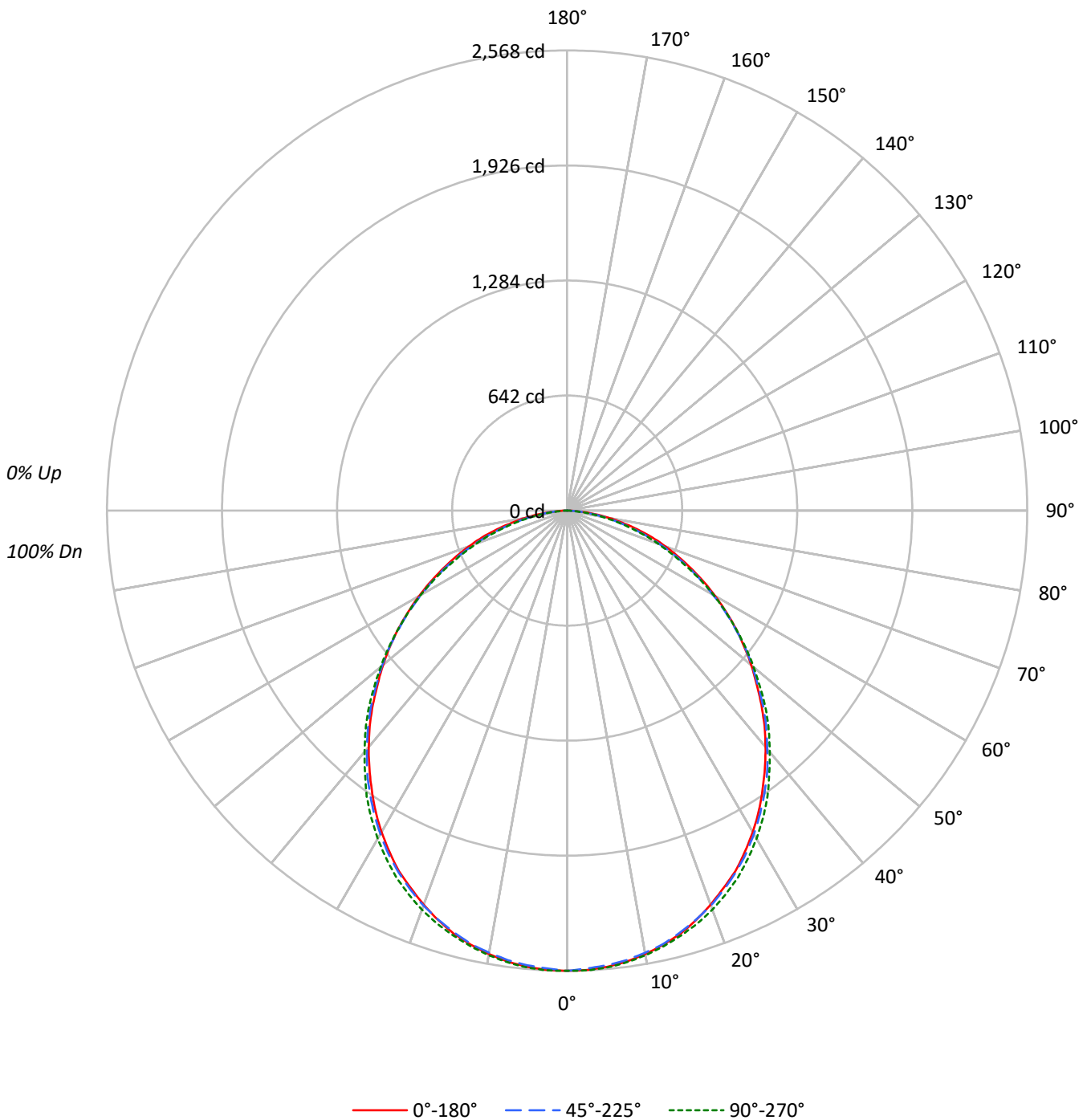
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	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	31
9	58	44	36	31	56	44	36	31	43	35	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°	3934	3934	3934
5°	3929	3916	3936
10°	3909	3896	3919
15°	3876	3865	3892
20°	3816	3823	3864
25°	3754	3764	3814
30°	3664	3687	3738
35°	3555	3591	3646
40°	3444	3474	3516
45°	3321	3353	3399
50°	3198	3213	3238
55°	3072	3055	3067
60°	2925	2880	2893
65°	2759	2699	2653
70°	2609	2468	2411
75°	2402	2191	2116
80°	2115	1855	1744
85°	1662	1293	961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	3.7
10°-20°	689.2	10.4
20°-30°	1027.2	15.6
30°-40°	1200.9	18.2
40°-50°	1192.6	18.1
50°-60°	1024.1	15.5
60°-70°	737.7	11.2
70°-80°	397.2	6.0
80°-90°	93.6	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°	1958.8	29.7
0°-40°	3159.8	47.8
0°-60°	5376.4	81.4
0°-90°	6605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2556	2553	2547	2556	2560	243
15°	2444	2438	2438	2452	2455	688
25°	2221	2213	2227	2251	2257	1021
35°	1901	1899	1920	1941	1950	1190
45°	1533	1529	1548	1561	1569	1183
55°	1150	1140	1144	1150	1148	1027
65°	761	749	745	738	732	756
75°	406	381	370	360	358	430
85°	95	86	74	59	55	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2566.0	2563.9	2557.6	2566.0	2568.2
5°	2555.5	2553.4	2547.1	2555.5	2559.7
7.5°	2538.7	2534.5	2530.3	2538.7	2542.9
10°	2513.5	2509.3	2505.1	2515.6	2519.8
12.5°	2481.9	2477.7	2477.7	2486.1	2490.3
15°	2444.1	2437.7	2437.7	2452.5	2454.6
17.5°	2395.7	2391.5	2393.6	2410.4	2416.7
20°	2341.0	2338.9	2345.2	2364.1	2370.4
22.5°	2280.0	2277.9	2288.4	2311.5	2315.8
25°	2221.1	2212.7	2227.4	2250.6	2256.9
27.5°	2147.5	2141.2	2160.1	2181.1	2187.5
30°	2071.8	2065.5	2084.4	2107.5	2113.8
32.5°	1989.7	1985.5	2004.5	2027.6	2033.9
35°	1901.4	1899.3	1920.3	1941.4	1949.8
37.5°	1813.1	1811.0	1834.1	1850.9	1853.0
40°	1722.6	1718.4	1737.3	1756.3	1758.4
42.5°	1630.1	1623.8	1644.8	1659.5	1665.8
45°	1533.3	1529.1	1548.0	1560.7	1569.1
47.5°	1434.5	1434.5	1445.0	1459.7	1461.8
50°	1341.9	1335.6	1348.2	1356.6	1358.7
52.5°	1245.2	1238.9	1249.4	1251.5	1255.7
55°	1150.5	1140.0	1144.2	1150.5	1148.4
57.5°	1051.7	1034.8	1043.2	1043.2	1047.5
60°	954.9	940.2	940.2	940.2	944.4
62.5°	858.2	843.4	843.4	841.3	839.2
65°	761.4	748.8	744.6	738.3	732.0
67.5°	668.9	654.1	645.7	637.3	631.0
70°	582.6	557.4	551.1	538.4	538.4
72.5°	496.4	471.1	458.5	450.1	448.0
75°	405.9	380.7	370.2	359.7	357.6
77.5°	317.6	300.8	283.9	275.5	271.3
80°	239.8	225.1	210.3	195.6	197.7
82.5°	164.1	149.3	138.8	126.2	122.0
85°	94.6	86.2	73.6	58.9	54.7
87.5°	40.0	29.4	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)