

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: P229773

Luminaire Tested: **24RLN-LD5-67-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229773
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-LD5-67-UNV-L940-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

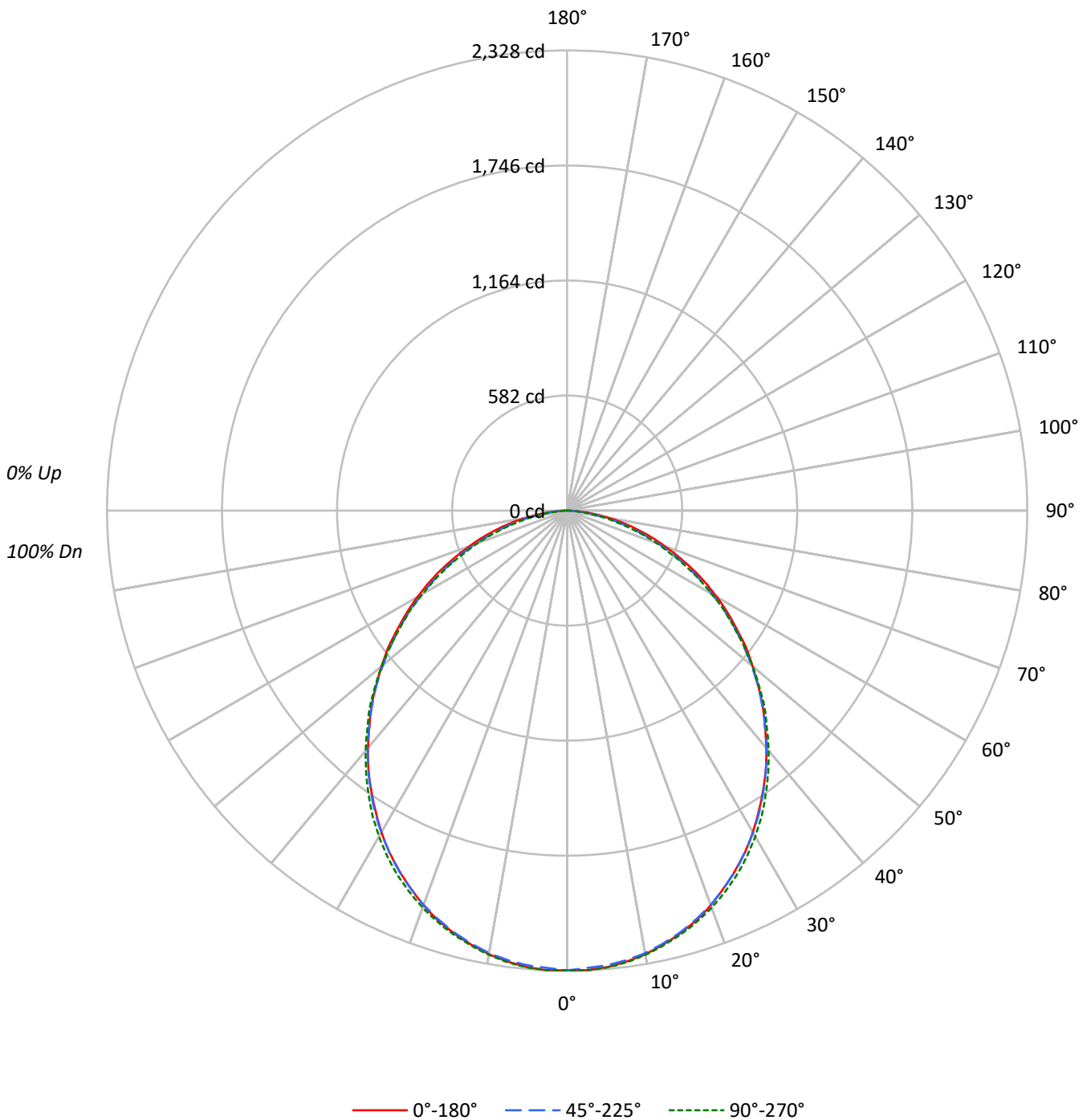
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3562	3562	3562
5°	3564	3550	3567
10°	3544	3535	3550
15°	3509	3503	3521
20°	3464	3460	3485
25°	3398	3401	3436
30°	3323	3327	3366
35°	3233	3236	3275
40°	3134	3141	3172
45°	3033	3025	3062
50°	2916	2898	2921
55°	2797	2762	2752
60°	2679	2599	2588
65°	2531	2422	2388
70°	2345	2202	2160
75°	2155	1944	1844
80°	1888	1623	1474
85°	1550	1121	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	3.7
10°-20°	624.3	10.5
20°-30°	928.8	15.6
30°-40°	1085.2	18.2
40°-50°	1078.8	18.1
50°-60°	926.9	15.5
60°-70°	665.7	11.2
70°-80°	354.5	5.9
80°-90°	83.0	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°	1772.9	29.7
0°-40°	2858.1	47.9
0°-60°	4863.8	81.5
0°-90°	5967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2318	2314	2309	2316	2320	220
15°	2213	2213	2209	2217	2221	624
25°	2010	2010	2012	2027	2033	926
35°	1729	1725	1731	1750	1751	1081
45°	1400	1389	1397	1404	1414	1078
55°	1047	1034	1034	1034	1030	940
65°	698	678	668	661	659	691
75°	364	344	328	319	312	388
85°	88	75	64	53	51	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.7	2325.7	2325.7	2325.7	2325.7
2.5°	2327.6	2323.9	2316.4	2325.7	2327.6
5°	2318.2	2314.5	2308.8	2316.4	2320.1
7.5°	2301.3	2297.6	2293.8	2301.3	2305.1
10°	2278.8	2276.9	2273.2	2282.6	2282.6
12.5°	2248.8	2246.9	2243.1	2252.5	2252.5
15°	2213.1	2213.1	2209.4	2216.9	2220.6
17.5°	2173.7	2171.8	2168.1	2177.5	2181.2
20°	2124.9	2124.9	2123.0	2134.3	2138.0
22.5°	2068.6	2068.6	2068.6	2083.6	2087.3
25°	2010.4	2010.4	2012.3	2027.3	2032.9
27.5°	1948.4	1946.6	1948.4	1965.3	1971.0
30°	1879.0	1875.2	1880.9	1897.8	1903.4
32.5°	1803.9	1800.2	1809.5	1824.6	1832.1
35°	1728.8	1725.1	1730.7	1749.5	1751.3
37.5°	1651.9	1642.5	1651.9	1668.8	1670.6
40°	1567.4	1559.9	1571.1	1578.7	1586.2
42.5°	1481.0	1477.3	1482.9	1496.1	1496.1
45°	1400.3	1389.1	1396.6	1404.1	1413.5
47.5°	1310.2	1304.6	1308.3	1314.0	1317.7
50°	1223.9	1214.5	1216.4	1222.0	1225.8
52.5°	1143.2	1124.4	1124.4	1128.1	1128.1
55°	1047.4	1034.3	1034.3	1034.3	1030.5
57.5°	963.0	946.1	944.2	944.2	944.2
60°	874.7	854.1	848.5	848.5	844.7
62.5°	786.5	767.7	760.2	752.7	752.7
65°	698.3	677.6	668.3	660.7	658.9
67.5°	608.2	593.2	581.9	572.5	563.1
70°	523.7	506.8	491.8	482.4	482.4
72.5°	444.9	426.1	411.1	399.8	394.2
75°	364.2	343.5	328.5	319.1	311.6
77.5°	292.8	270.3	255.3	242.1	234.6
80°	214.0	197.1	184.0	170.8	167.1
82.5°	148.3	135.2	120.1	110.7	107.0
85°	88.2	75.1	63.8	52.6	50.7
87.5°	35.7	26.3	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)