

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: P229883

Luminaire Tested: **24RLN-LD5-67-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229883
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-LD5-67-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5745.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

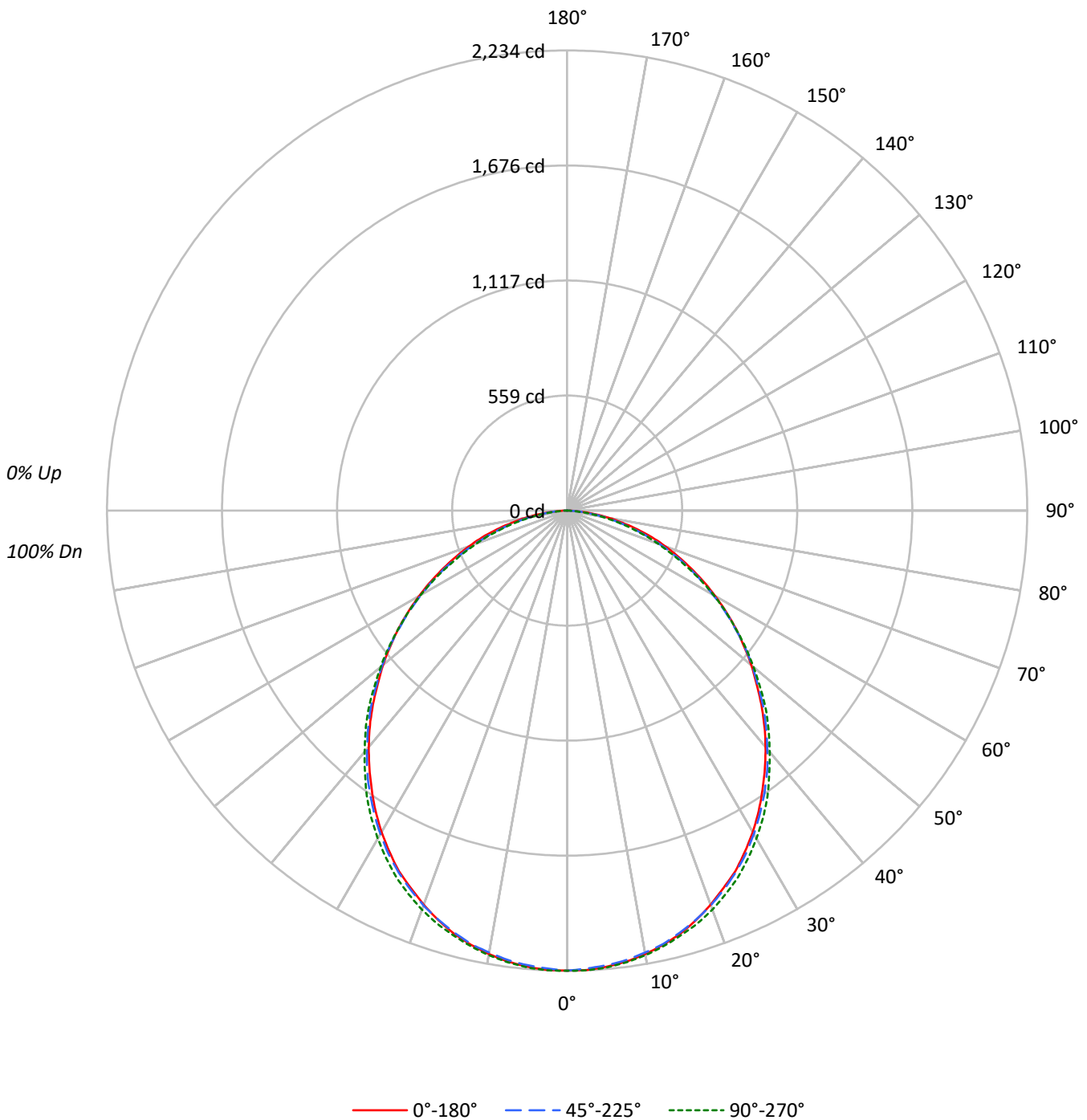
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229883

CATALOG NUMBER: 24RLN-LD5-67-UNV-L935-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229883

CATALOG NUMBER: 24RLN-LD5-67-UNV-L935-CD1-SVPD1-U

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°	3421	3421	3421
5°	3418	3406	3423
10°	3400	3389	3409
15°	3371	3362	3385
20°	3319	3325	3361
25°	3265	3274	3317
30°	3187	3206	3252
35°	3092	3123	3171
40°	2996	3021	3058
45°	2889	2917	2956
50°	2781	2794	2816
55°	2672	2658	2667
60°	2544	2505	2516
65°	2400	2347	2308
70°	2270	2146	2097
75°	2090	1906	1840
80°	1840	1613	1517
85°	1446	1125	837



TEST NUMBER: P229883

CATALOG NUMBER: 24RLN-LD5-67-UNV-L935-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.7
10°-20°	599.4	10.4
20°-30°	893.5	15.6
30°-40°	1044.6	18.2
40°-50°	1037.3	18.1
50°-60°	890.7	15.5
60°-70°	641.7	11.2
70°-80°	345.5	6.0
80°-90°	81.5	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°	1703.8	29.7
0°-40°	2748.4	47.8
0°-60°	4676.4	81.4
0°-90°	5745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2223	2221	2216	2223	2226	211
15°	2126	2120	2120	2133	2135	599
25°	1932	1925	1937	1958	1963	888
35°	1654	1652	1670	1689	1696	1035
45°	1334	1330	1346	1358	1365	1029
55°	1001	992	995	1001	999	894
65°	662	651	648	642	637	658
75°	353	331	322	313	311	374
85°	82	75	64	51	48	99
90°	0	0	0	0	0	



TEST NUMBER: P229883

CATALOG NUMBER: 24RLN-LD5-67-UNV-L935-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2231.9	2230.1	2224.6	2231.9	2233.8
5°	2222.8	2221.0	2215.5	2222.8	2226.4
7.5°	2208.2	2204.5	2200.8	2208.2	2211.8
10°	2186.2	2182.5	2178.9	2188.0	2191.7
12.5°	2158.8	2155.1	2155.1	2162.4	2166.1
15°	2125.8	2120.3	2120.3	2133.1	2135.0
17.5°	2083.8	2080.1	2081.9	2096.6	2102.0
20°	2036.2	2034.4	2039.8	2056.3	2061.8
22.5°	1983.1	1981.3	1990.4	2010.6	2014.2
25°	1931.9	1924.6	1937.4	1957.5	1963.0
27.5°	1867.9	1862.4	1878.9	1897.1	1902.6
30°	1802.0	1796.5	1813.0	1833.1	1838.6
32.5°	1730.7	1727.0	1743.5	1763.6	1769.1
35°	1653.8	1652.0	1670.3	1688.6	1695.9
37.5°	1577.0	1575.2	1595.3	1609.9	1611.8
40°	1498.3	1494.7	1511.1	1527.6	1529.4
42.5°	1417.8	1412.3	1430.6	1443.4	1448.9
45°	1333.7	1330.0	1346.5	1357.5	1364.8
47.5°	1247.7	1247.7	1256.8	1269.6	1271.5
50°	1167.2	1161.7	1172.7	1180.0	1181.8
52.5°	1083.0	1077.6	1086.7	1088.5	1092.2
55°	1000.7	991.6	995.2	1000.7	998.9
57.5°	914.7	900.1	907.4	907.4	911.1
60°	830.6	817.8	817.8	817.8	821.4
62.5°	746.4	733.6	733.6	731.8	730.0
65°	662.3	651.3	647.6	642.1	636.7
67.5°	581.8	569.0	561.6	554.3	548.8
70°	506.8	484.8	479.3	468.3	468.3
72.5°	431.8	409.8	398.8	391.5	389.7
75°	353.1	331.1	322.0	312.8	311.0
77.5°	276.2	261.6	247.0	239.7	236.0
80°	208.6	195.8	182.9	170.1	172.0
82.5°	142.7	129.9	120.7	109.8	106.1
85°	82.3	75.0	64.0	51.2	47.6
87.5°	34.8	25.6	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)