

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: P229893

Luminaire Tested: **24RLN-LD5-67-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229893
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-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5894.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

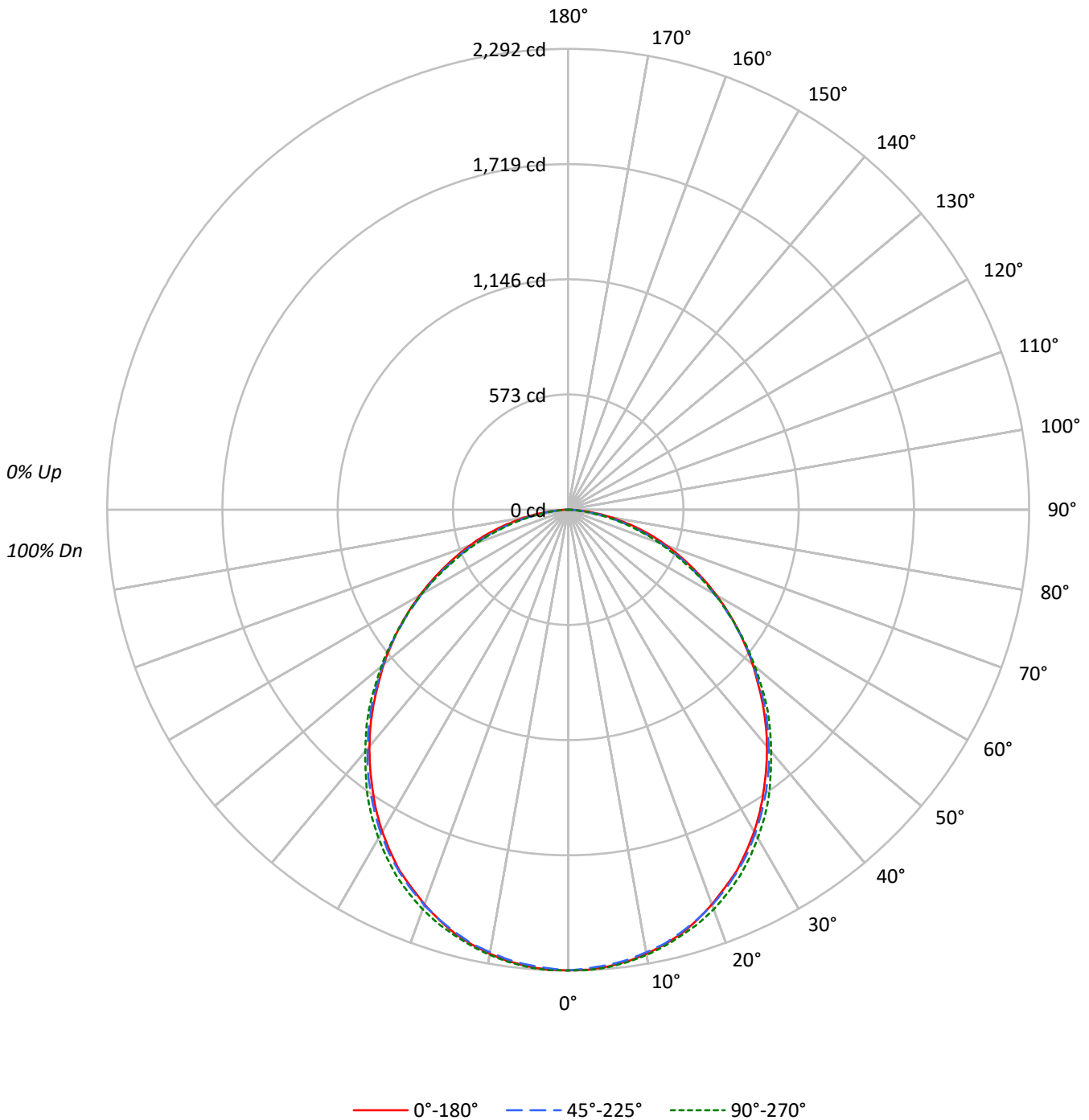
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229893

CATALOG NUMBER: 24RLN-LD5-67-UNV-L940-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229893

CATALOG NUMBER: 24RLN-LD5-67-UNV-L940-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°	3510	3510	3510
5°	3506	3495	3512
10°	3488	3477	3497
15°	3458	3449	3473
20°	3405	3411	3448
25°	3350	3359	3404
30°	3270	3290	3336
35°	3173	3204	3253
40°	3074	3100	3137
45°	2964	2992	3033
50°	2853	2867	2889
55°	2742	2726	2737
60°	2610	2570	2581
65°	2462	2408	2367
70°	2328	2202	2152
75°	2143	1955	1888
80°	1888	1656	1556
85°	1485	1155	858



TEST NUMBER: P229893

CATALOG NUMBER: 24RLN-LD5-67-UNV-L940-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	3.7
10°-20°	615.0	10.4
20°-30°	916.7	15.6
30°-40°	1071.7	18.2
40°-50°	1064.2	18.1
50°-60°	913.8	15.5
60°-70°	658.3	11.2
70°-80°	354.5	6.0
80°-90°	83.6	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°	1748.0	29.7
0°-40°	2819.6	47.8
0°-60°	4797.7	81.4
0°-90°	5894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2292	2292	2292	2292	2292	
5°	2280	2279	2273	2280	2284	217
15°	2181	2175	2175	2188	2190	614
25°	1982	1974	1988	2008	2014	911
35°	1697	1695	1714	1732	1740	1061
45°	1368	1364	1381	1393	1400	1055
55°	1027	1017	1021	1027	1025	917
65°	679	668	664	659	653	675
75°	362	340	330	321	319	384
85°	84	77	66	53	49	102
90°	0	0	0	0	0	



TEST NUMBER: P229893

CATALOG NUMBER: 24RLN-LD5-67-UNV-L940-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.7	2291.7	2291.7	2291.7	2291.7
2.5°	2289.8	2287.9	2282.3	2289.8	2291.7
5°	2280.4	2278.6	2272.9	2280.4	2284.2
7.5°	2265.4	2261.7	2257.9	2265.4	2269.2
10°	2242.9	2239.1	2235.4	2244.8	2248.5
12.5°	2214.7	2211.0	2211.0	2218.5	2222.3
15°	2181.0	2175.3	2175.3	2188.5	2190.3
17.5°	2137.8	2134.0	2135.9	2150.9	2156.6
20°	2089.0	2087.1	2092.7	2109.6	2115.3
22.5°	2034.6	2032.7	2042.1	2062.7	2066.5
25°	1982.0	1974.5	1987.6	2008.3	2013.9
27.5°	1916.3	1910.7	1927.6	1946.4	1952.0
30°	1848.8	1843.1	1860.0	1880.7	1886.3
32.5°	1775.6	1771.8	1788.7	1809.3	1815.0
35°	1696.7	1694.8	1713.6	1732.4	1739.9
37.5°	1617.9	1616.0	1636.7	1651.7	1653.6
40°	1537.2	1533.4	1550.3	1567.2	1569.1
42.5°	1454.6	1449.0	1467.7	1480.9	1486.5
45°	1368.3	1364.5	1381.4	1392.7	1400.2
47.5°	1280.0	1280.0	1289.4	1302.6	1304.4
50°	1197.5	1191.8	1203.1	1210.6	1212.5
52.5°	1111.1	1105.5	1114.9	1116.8	1120.5
55°	1026.7	1017.3	1021.0	1026.7	1024.8
57.5°	938.5	923.4	930.9	930.9	934.7
60°	852.1	839.0	839.0	839.0	842.7
62.5°	765.8	752.6	752.6	750.8	748.9
65°	679.4	668.2	664.4	658.8	653.2
67.5°	596.9	583.7	576.2	568.7	563.1
70°	519.9	497.4	491.7	480.5	480.5
72.5°	442.9	420.4	409.2	401.7	399.8
75°	362.2	339.7	330.3	321.0	319.1
77.5°	283.4	268.4	253.4	245.9	242.1
80°	214.0	200.8	187.7	174.6	176.4
82.5°	146.4	133.3	123.9	112.6	108.9
85°	84.5	77.0	65.7	52.6	48.8
87.5°	35.7	26.3	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)