

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: P229763

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229763
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-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5816.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

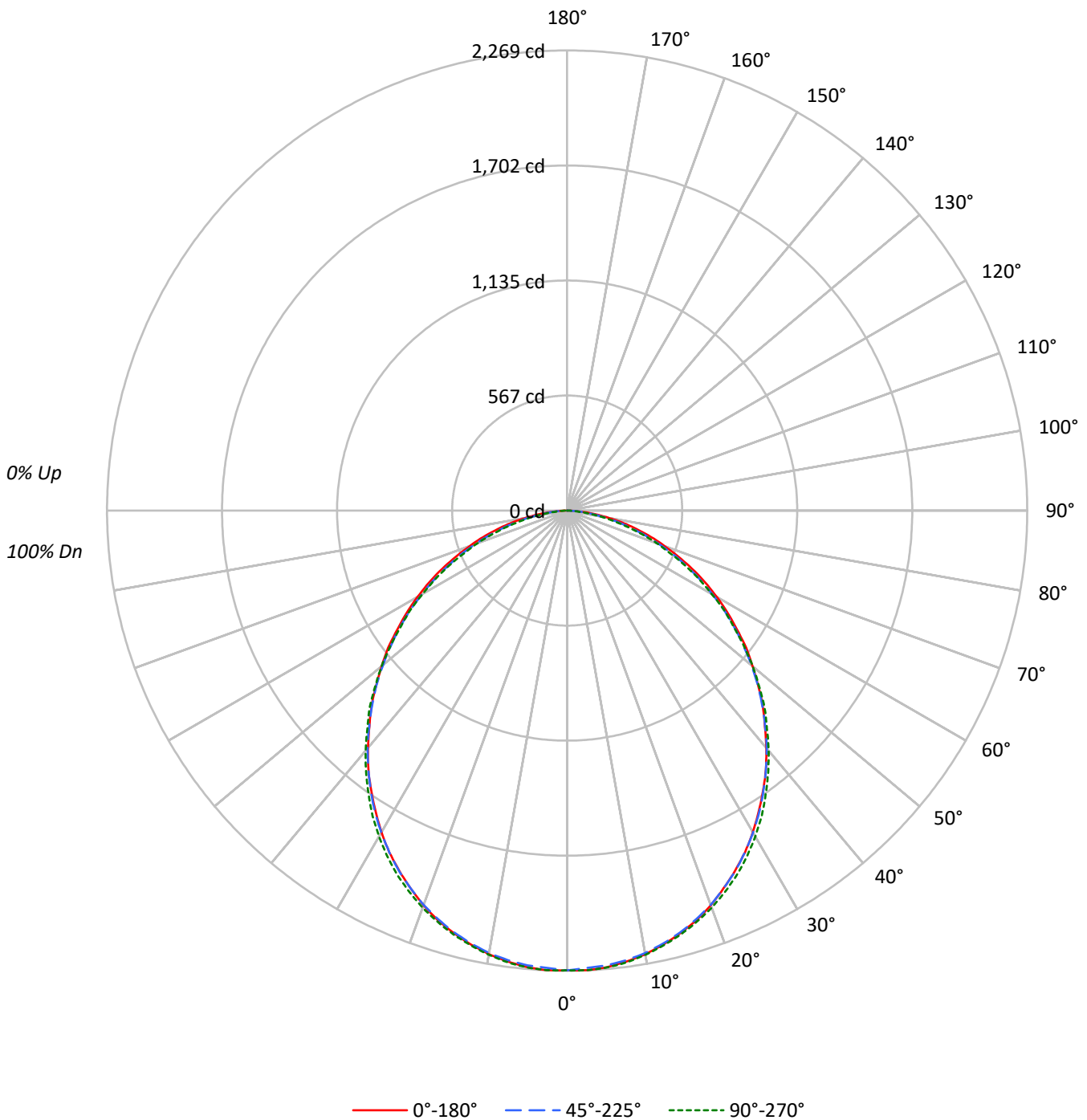
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229763

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

Luminous Intensity Polar Plot





TEST NUMBER: P229763

CATALOG NUMBER: 24RLN-LD5-67-UNV-L935-CD1-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	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°	3472	3472	3472
5°	3474	3460	3477
10°	3454	3446	3460
15°	3421	3415	3432
20°	3376	3373	3397
25°	3312	3315	3349
30°	3239	3242	3281
35°	3151	3154	3192
40°	3055	3062	3091
45°	2957	2948	2984
50°	2842	2825	2847
55°	2726	2692	2682
60°	2612	2533	2522
65°	2467	2360	2327
70°	2286	2147	2106
75°	2100	1895	1797
80°	1840	1582	1436
85°	1511	1093	868



TEST NUMBER: P229763

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.7
10°-20°	608.5	10.5
20°-30°	905.3	15.6
30°-40°	1057.7	18.2
40°-50°	1051.5	18.1
50°-60°	903.5	15.5
60°-70°	648.8	11.2
70°-80°	345.6	5.9
80°-90°	80.9	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°	1728.0	29.7
0°-40°	2785.7	47.9
0°-60°	4740.7	81.5
0°-90°	5816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2260	2256	2250	2258	2261	214
15°	2157	2157	2154	2161	2164	608
25°	1960	1960	1961	1976	1982	902
35°	1685	1681	1687	1705	1707	1054
45°	1365	1354	1361	1368	1378	1051
55°	1021	1008	1008	1008	1004	916
65°	681	660	651	644	642	673
75°	355	335	320	311	304	378
85°	86	73	62	51	49	101
90°	0	0	0	0	0	



TEST NUMBER: P229763

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2268.7	2265.1	2257.7	2266.9	2268.7
5°	2259.6	2255.9	2250.4	2257.7	2261.4
7.5°	2243.1	2239.4	2235.8	2243.1	2246.8
10°	2221.1	2219.3	2215.7	2224.8	2224.8
12.5°	2191.9	2190.0	2186.4	2195.5	2195.5
15°	2157.1	2157.1	2153.5	2160.8	2164.4
17.5°	2118.7	2116.9	2113.2	2122.3	2126.0
20°	2071.1	2071.1	2069.3	2080.3	2083.9
22.5°	2016.2	2016.2	2016.2	2030.9	2034.5
25°	1959.5	1959.5	1961.3	1976.0	1981.5
27.5°	1899.1	1897.3	1899.1	1915.6	1921.1
30°	1831.4	1827.8	1833.3	1849.7	1855.2
32.5°	1758.3	1754.6	1763.7	1778.4	1785.7
35°	1685.1	1681.4	1686.9	1705.2	1707.0
37.5°	1610.1	1600.9	1610.1	1626.5	1628.4
40°	1527.7	1520.4	1531.4	1538.7	1546.0
42.5°	1443.6	1439.9	1445.4	1458.2	1458.2
45°	1364.9	1353.9	1361.2	1368.5	1377.7
47.5°	1277.1	1271.6	1275.2	1280.7	1284.4
50°	1192.9	1183.8	1185.6	1191.1	1194.7
52.5°	1114.2	1095.9	1095.9	1099.6	1099.6
55°	1020.9	1008.1	1008.1	1008.1	1004.5
57.5°	938.6	922.1	920.3	920.3	920.3
60°	852.6	832.5	827.0	827.0	823.3
62.5°	766.6	748.3	741.0	733.7	733.7
65°	680.6	660.5	651.3	644.0	642.2
67.5°	592.8	578.2	567.2	558.0	548.9
70°	510.5	494.0	479.4	470.2	470.2
72.5°	433.6	415.3	400.7	389.7	384.2
75°	354.9	334.8	320.2	311.0	303.7
77.5°	285.4	263.5	248.8	236.0	228.7
80°	208.6	192.1	179.3	166.5	162.8
82.5°	144.5	131.7	117.1	107.9	104.3
85°	86.0	73.2	62.2	51.2	49.4
87.5°	34.8	25.6	20.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)