

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: P229884

Luminaire Tested: **24RLN-LD5-74-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229884
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-LD5-74-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: 6321.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

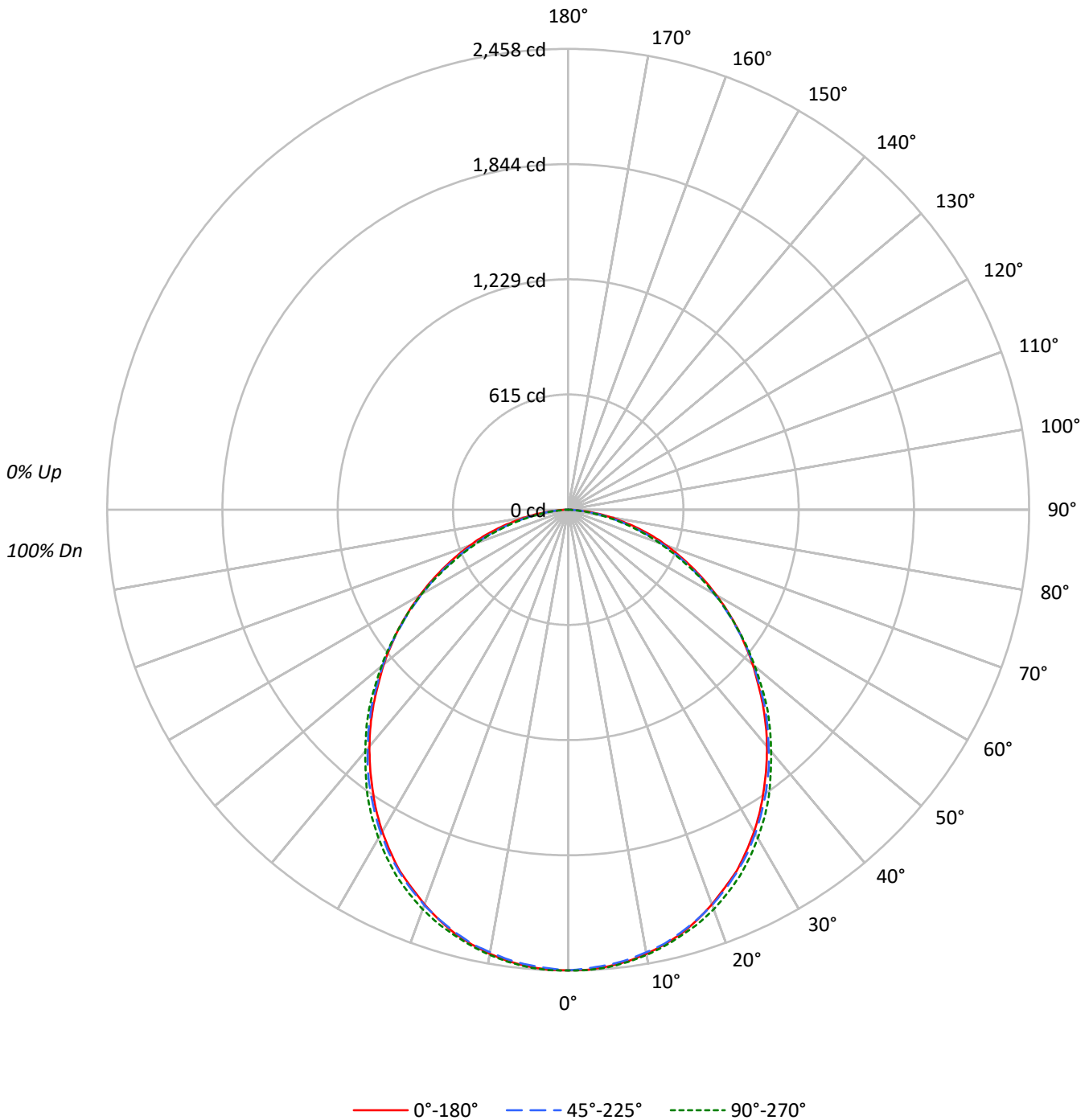
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3764	3764	3764
5°	3760	3748	3766
10°	3741	3729	3750
15°	3709	3699	3725
20°	3652	3658	3698
25°	3592	3602	3650
30°	3507	3528	3578
35°	3402	3436	3489
40°	3296	3324	3365
45°	3179	3209	3253
50°	3060	3075	3098
55°	2940	2924	2935
60°	2799	2756	2769
65°	2641	2583	2539
70°	2497	2362	2308
75°	2299	2097	2025
80°	2024	1776	1669
85°	1592	1239	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	3.7
10°-20°	659.5	10.4
20°-30°	983.1	15.6
30°-40°	1149.3	18.2
40°-50°	1141.3	18.1
50°-60°	980.1	15.5
60°-70°	706.0	11.2
70°-80°	380.1	6.0
80°-90°	89.6	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°	1874.6	29.7
0°-40°	3023.9	47.8
0°-60°	5145.3	81.4
0°-90°	6321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2446	2444	2438	2446	2450	232
15°	2339	2333	2333	2347	2349	659
25°	2126	2118	2132	2154	2160	977
35°	1820	1818	1838	1858	1866	1138
45°	1467	1463	1482	1494	1502	1132
55°	1101	1091	1095	1101	1099	983
65°	729	717	713	706	700	724
75°	388	364	354	344	342	412
85°	91	82	70	56	52	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2457.7	2457.7	2457.7	2457.7	2457.7
2.5°	2455.7	2453.7	2447.7	2455.7	2457.7
5°	2445.7	2443.6	2437.6	2445.7	2449.7
7.5°	2429.5	2425.5	2421.5	2429.5	2433.6
10°	2405.4	2401.4	2397.3	2407.4	2411.4
12.5°	2375.2	2371.2	2371.2	2379.2	2383.3
15°	2339.0	2332.9	2332.9	2347.0	2349.0
17.5°	2292.7	2288.6	2290.7	2306.8	2312.8
20°	2240.3	2238.3	2244.4	2262.5	2268.5
22.5°	2182.0	2179.9	2190.0	2212.2	2216.2
25°	2125.6	2117.6	2131.6	2153.8	2159.8
27.5°	2055.2	2049.1	2067.2	2087.4	2093.4
30°	1982.7	1976.6	1994.8	2016.9	2022.9
32.5°	1904.2	1900.2	1918.3	1940.4	1946.5
35°	1819.6	1817.6	1837.8	1857.9	1865.9
37.5°	1735.1	1733.1	1755.2	1771.3	1773.3
40°	1648.5	1644.5	1662.6	1680.8	1682.8
42.5°	1560.0	1553.9	1574.1	1588.2	1594.2
45°	1467.4	1463.4	1481.5	1493.6	1501.6
47.5°	1372.8	1372.8	1382.8	1396.9	1399.0
50°	1284.2	1278.2	1290.3	1298.3	1300.3
52.5°	1191.6	1185.6	1195.7	1197.7	1201.7
55°	1101.0	1091.0	1095.0	1101.0	1099.0
57.5°	1006.4	990.3	998.4	998.4	1002.4
60°	913.8	899.8	899.8	899.8	903.8
62.5°	821.3	807.2	807.2	805.2	803.1
65°	728.7	716.6	712.6	706.5	700.5
67.5°	640.1	626.0	618.0	609.9	603.9
70°	557.6	533.4	527.4	515.3	515.3
72.5°	475.0	450.9	438.8	430.8	428.7
75°	388.5	364.3	354.3	344.2	342.2
77.5°	303.9	287.8	271.7	263.7	259.7
80°	229.5	215.4	201.3	187.2	189.2
82.5°	157.0	142.9	132.9	120.8	116.7
85°	90.6	82.5	70.5	56.4	52.3
87.5°	38.2	28.2	20.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)