

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: P229774

Luminaire Tested: **24RLN-LD5-74-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229774
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-LD5-74-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: 6566.0 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

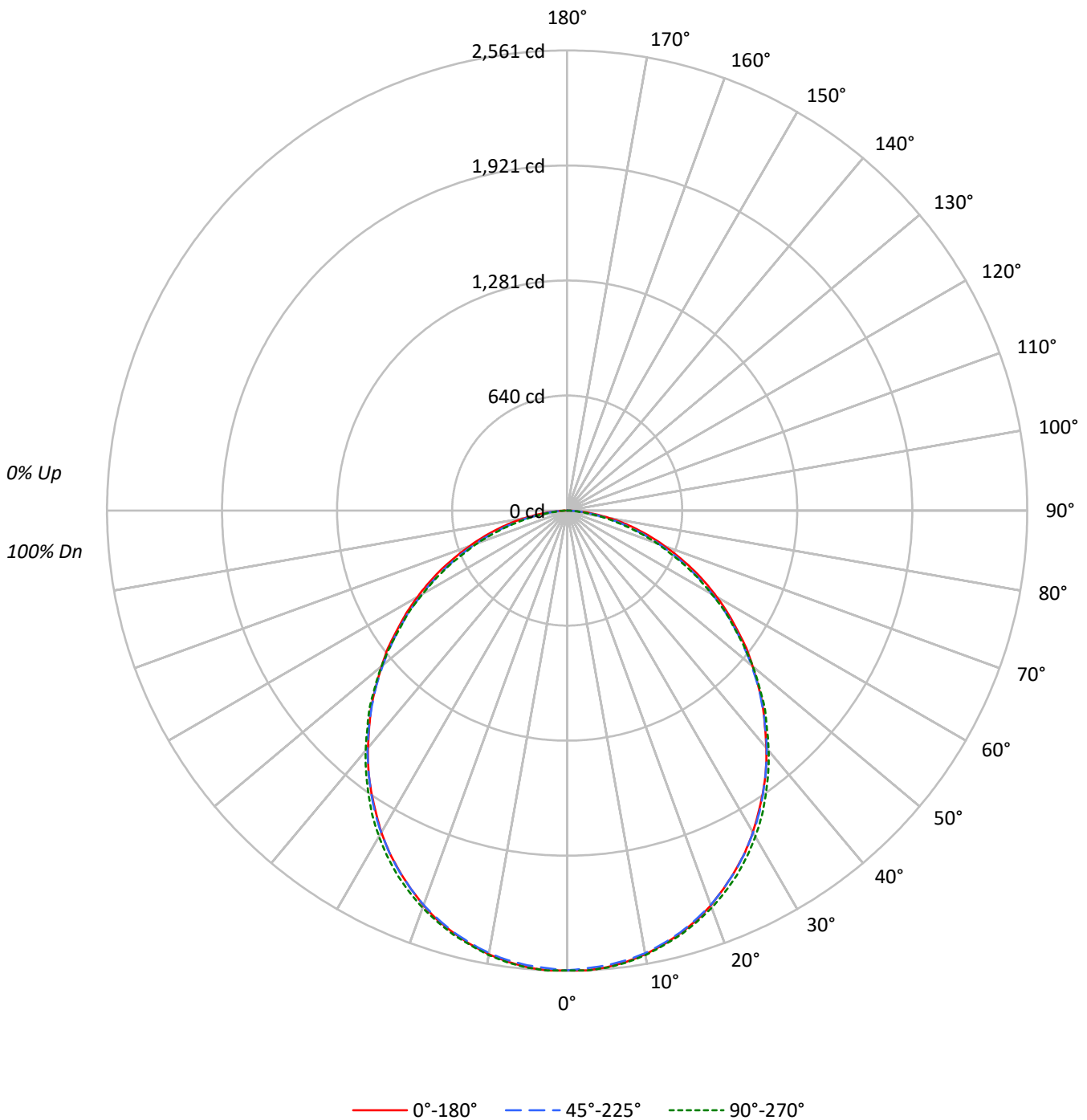
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3920	3920	3920
5°	3922	3906	3925
10°	3900	3890	3906
15°	3862	3855	3875
20°	3811	3808	3835
25°	3739	3742	3781
30°	3657	3661	3704
35°	3557	3561	3604
40°	3448	3457	3490
45°	3338	3329	3369
50°	3209	3189	3214
55°	3078	3039	3028
60°	2948	2860	2847
65°	2785	2665	2628
70°	2581	2424	2377
75°	2371	2139	2029
80°	2077	1785	1621
85°	1706	1234	981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	3.7
10°-20°	686.9	10.5
20°-30°	1022.1	15.6
30°-40°	1194.1	18.2
40°-50°	1187.1	18.1
50°-60°	1020.0	15.5
60°-70°	732.5	11.2
70°-80°	390.1	5.9
80°-90°	91.4	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°	1950.8	29.7
0°-40°	3145.0	47.9
0°-60°	5352.0	81.5
0°-90°	6566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2559	2559	2559	2559	2559	
5°	2551	2547	2541	2549	2553	242
15°	2435	2435	2431	2439	2444	687
25°	2212	2212	2214	2231	2237	1019
35°	1902	1898	1904	1925	1927	1190
45°	1541	1528	1537	1545	1555	1186
55°	1153	1138	1138	1138	1134	1034
65°	768	746	735	727	725	760
75°	401	378	362	351	343	427
85°	97	83	70	58	56	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2561.3	2557.1	2548.9	2559.2	2561.3
5°	2551.0	2546.8	2540.6	2548.9	2553.0
7.5°	2532.4	2528.2	2524.1	2532.4	2536.5
10°	2507.6	2505.5	2501.4	2511.7	2511.7
12.5°	2474.5	2472.5	2468.3	2478.7	2478.7
15°	2435.3	2435.3	2431.1	2439.4	2443.5
17.5°	2391.9	2389.8	2385.7	2396.0	2400.2
20°	2338.2	2338.2	2336.1	2348.5	2352.7
22.5°	2276.2	2276.2	2276.2	2292.8	2296.9
25°	2212.2	2212.2	2214.3	2230.8	2237.0
27.5°	2144.0	2142.0	2144.0	2162.6	2168.8
30°	2067.6	2063.5	2069.7	2088.3	2094.5
32.5°	1985.0	1980.9	1991.2	2007.7	2016.0
35°	1902.4	1898.2	1904.4	1925.1	1927.2
37.5°	1817.7	1807.4	1817.7	1836.3	1838.3
40°	1724.7	1716.5	1728.9	1737.1	1745.4
42.5°	1629.7	1625.6	1631.8	1646.2	1646.2
45°	1540.9	1528.5	1536.8	1545.0	1555.4
47.5°	1441.8	1435.6	1439.7	1445.9	1450.0
50°	1346.7	1336.4	1338.5	1344.7	1348.8
52.5°	1257.9	1237.3	1237.3	1241.4	1241.4
55°	1152.6	1138.1	1138.1	1138.1	1134.0
57.5°	1059.6	1041.0	1039.0	1039.0	1039.0
60°	962.5	939.8	933.6	933.6	929.5
62.5°	865.5	844.8	836.5	828.3	828.3
65°	768.4	745.7	735.3	727.1	725.0
67.5°	669.2	652.7	640.3	630.0	619.7
70°	576.3	557.7	541.2	530.8	530.8
72.5°	489.5	468.9	452.4	440.0	433.8
75°	400.7	378.0	361.5	351.1	342.9
77.5°	322.2	297.4	280.9	266.5	258.2
80°	235.5	216.9	202.4	188.0	183.8
82.5°	163.2	148.7	132.2	121.9	117.7
85°	97.1	82.6	70.2	57.8	55.8
87.5°	39.2	28.9	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)