

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: P229894

Luminaire Tested: **24RLN-LD5-74-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229894
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-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: 6486.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

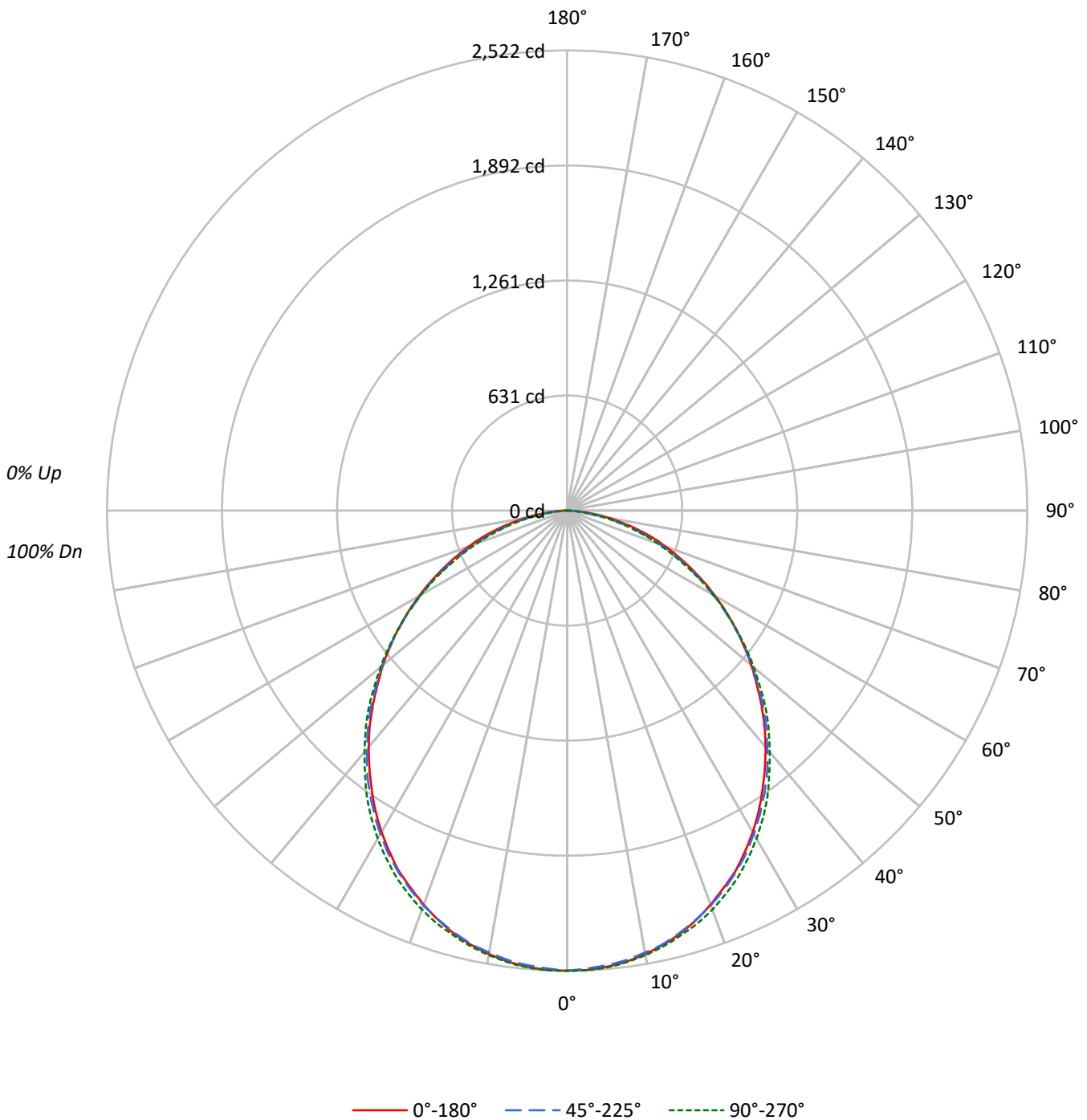
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3863	3863	3863
5°	3858	3846	3865
10°	3839	3826	3848
15°	3806	3796	3822
20°	3747	3754	3794
25°	3686	3697	3745
30°	3598	3620	3671
35°	3491	3526	3580
40°	3382	3411	3452
45°	3261	3293	3338
50°	3140	3155	3179
55°	3017	3000	3011
60°	2872	2828	2841
65°	2710	2650	2605
70°	2562	2423	2368
75°	2359	2151	2078
80°	2077	1821	1712
85°	1633	1271	944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	3.7
10°-20°	676.8	10.4
20°-30°	1008.7	15.6
30°-40°	1179.3	18.2
40°-50°	1171.1	18.1
50°-60°	1005.6	15.5
60°-70°	724.4	11.2
70°-80°	390.0	6.0
80°-90°	92.0	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°	1923.5	29.7
0°-40°	3102.8	47.8
0°-60°	5279.6	81.4
0°-90°	6486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2510	2507	2501	2510	2514	238
15°	2400	2394	2394	2408	2410	676
25°	2181	2173	2187	2210	2216	1003
35°	1867	1865	1886	1906	1915	1168
45°	1506	1502	1520	1532	1541	1161
55°	1130	1120	1124	1130	1128	1009
65°	748	735	731	725	719	743
75°	399	374	364	353	351	422
85°	93	85	72	58	54	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2521.9	2521.9	2521.9	2521.9	2521.9
2.5°	2519.8	2517.8	2511.6	2519.8	2521.9
5°	2509.5	2507.4	2501.2	2509.5	2513.6
7.5°	2493.0	2488.8	2484.7	2493.0	2497.1
10°	2468.2	2464.1	2459.9	2470.2	2474.4
12.5°	2437.2	2433.1	2433.1	2441.3	2445.5
15°	2400.0	2393.8	2393.8	2408.3	2410.3
17.5°	2352.5	2348.4	2350.5	2367.0	2373.2
20°	2298.8	2296.8	2302.9	2321.5	2327.7
22.5°	2238.9	2236.9	2247.2	2269.9	2274.0
25°	2181.1	2172.8	2187.3	2210.0	2216.2
27.5°	2108.8	2102.6	2121.2	2141.8	2148.0
30°	2034.4	2028.2	2046.8	2069.6	2075.8
32.5°	1953.9	1949.8	1968.3	1991.1	1997.3
35°	1867.1	1865.1	1885.7	1906.4	1914.6
37.5°	1780.4	1778.3	1801.0	1817.6	1819.6
40°	1691.6	1687.5	1706.0	1724.6	1726.7
42.5°	1600.7	1594.5	1615.2	1629.6	1635.8
45°	1505.7	1501.6	1520.2	1532.5	1540.8
47.5°	1408.6	1408.6	1418.9	1433.4	1435.5
50°	1317.7	1311.5	1323.9	1332.2	1334.3
52.5°	1222.7	1216.5	1226.9	1228.9	1233.1
55°	1129.8	1119.5	1123.6	1129.8	1127.7
57.5°	1032.7	1016.2	1024.5	1024.5	1028.6
60°	937.7	923.2	923.2	923.2	927.4
62.5°	842.7	828.2	828.2	826.2	824.1
65°	747.7	735.3	731.2	725.0	718.8
67.5°	656.8	642.3	634.1	625.8	619.6
70°	572.1	547.3	541.1	528.7	528.7
72.5°	487.4	462.7	450.3	442.0	439.9
75°	398.6	373.8	363.5	353.2	351.1
77.5°	311.9	295.4	278.8	270.6	266.4
80°	235.5	221.0	206.5	192.1	194.1
82.5°	161.1	146.6	136.3	123.9	119.8
85°	92.9	84.7	72.3	57.8	53.7
87.5°	39.2	28.9	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)