

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: P229844

Luminaire Tested: **24RLN-LD5-74-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229844
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-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7048.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

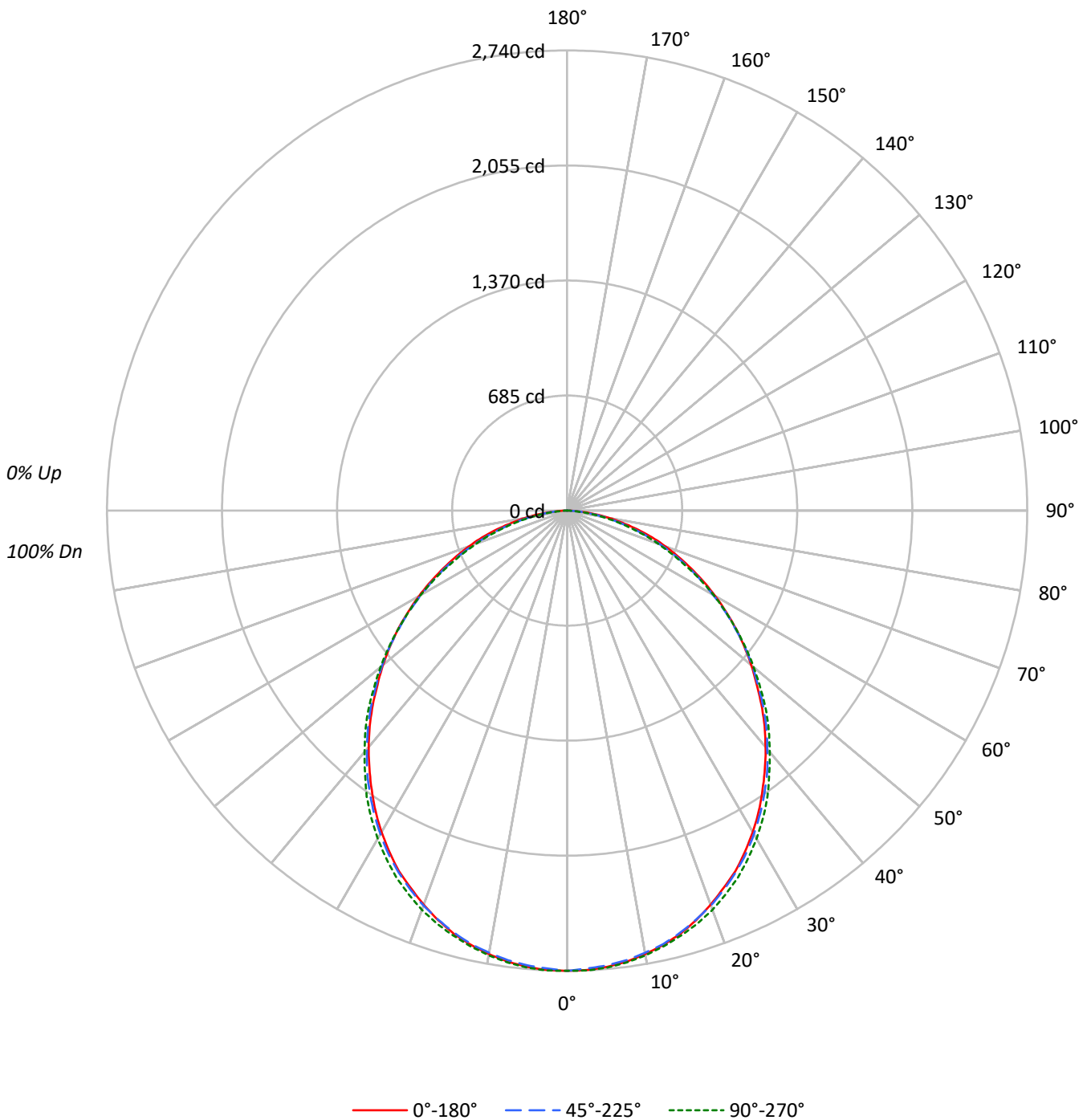
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4197	4197	4197
5°	4193	4179	4200
10°	4171	4157	4182
15°	4135	4125	4153
20°	4072	4079	4123
25°	4005	4017	4070
30°	3910	3934	3989
35°	3794	3831	3890
40°	3675	3707	3752
45°	3544	3578	3627
50°	3412	3428	3455
55°	3278	3260	3272
60°	3122	3073	3087
65°	2945	2879	2831
70°	2784	2633	2573
75°	2564	2338	2258
80°	2257	1979	1861
85°	1775	1381	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	3.7
10°-20°	735.4	10.4
20°-30°	1096.1	15.6
30°-40°	1281.5	18.2
40°-50°	1272.6	18.1
50°-60°	1092.8	15.5
60°-70°	787.2	11.2
70°-80°	423.8	6.0
80°-90°	99.9	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°	2090.2	29.7
0°-40°	3371.7	47.8
0°-60°	5737.0	81.4
0°-90°	7048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2740	2740	2740	2740	2740	
5°	2727	2725	2718	2727	2731	259
15°	2608	2601	2601	2617	2619	735
25°	2370	2361	2377	2402	2408	1090
35°	2029	2027	2049	2072	2080	1269
45°	1636	1632	1652	1665	1674	1262
55°	1228	1216	1221	1228	1225	1096
65°	812	799	794	788	781	807
75°	433	406	395	384	382	459
85°	101	92	79	63	58	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2740.4	2740.4	2740.4	2740.4	2740.4
2.5°	2738.2	2735.9	2729.2	2738.2	2740.4
5°	2726.9	2724.7	2718.0	2726.9	2731.4
7.5°	2709.0	2704.5	2700.0	2709.0	2713.5
10°	2682.0	2677.6	2673.1	2684.3	2688.8
12.5°	2648.4	2643.9	2643.9	2652.9	2657.4
15°	2608.0	2601.2	2601.2	2617.0	2619.2
17.5°	2556.4	2551.9	2554.1	2572.1	2578.8
20°	2498.0	2495.8	2502.5	2522.7	2529.4
22.5°	2432.9	2430.7	2441.9	2466.6	2471.1
25°	2370.1	2361.1	2376.8	2401.5	2408.2
27.5°	2291.5	2284.8	2305.0	2327.4	2334.2
30°	2210.7	2204.0	2224.2	2248.9	2255.6
32.5°	2123.2	2118.7	2138.9	2163.6	2170.3
35°	2028.9	2026.7	2049.1	2071.6	2080.5
37.5°	1934.7	1932.4	1957.1	1975.1	1977.3
40°	1838.2	1833.7	1853.9	1874.1	1876.3
42.5°	1739.4	1732.7	1755.1	1770.8	1777.6
45°	1636.2	1631.7	1651.9	1665.3	1674.3
47.5°	1530.7	1530.7	1541.9	1557.6	1559.9
50°	1431.9	1425.2	1438.7	1447.6	1449.9
52.5°	1328.7	1321.9	1333.2	1335.4	1339.9
55°	1227.7	1216.5	1220.9	1227.7	1225.4
57.5°	1122.2	1104.2	1113.2	1113.2	1117.7
60°	1019.0	1003.2	1003.2	1003.2	1007.7
62.5°	915.7	900.0	900.0	897.8	895.5
65°	812.5	799.0	794.5	787.8	781.0
67.5°	713.7	698.0	689.0	680.0	673.3
70°	621.7	594.8	588.0	574.6	574.6
72.5°	529.7	502.7	489.3	480.3	478.1
75°	433.2	406.2	395.0	383.8	381.5
77.5°	338.9	320.9	303.0	294.0	289.5
80°	255.9	240.1	224.4	208.7	211.0
82.5°	175.1	159.4	148.1	134.7	130.2
85°	101.0	92.0	78.6	62.8	58.4
87.5°	42.6	31.4	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)