

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: P229723

Luminaire Tested: **24RLN-LD5-67-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229723
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-L830-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

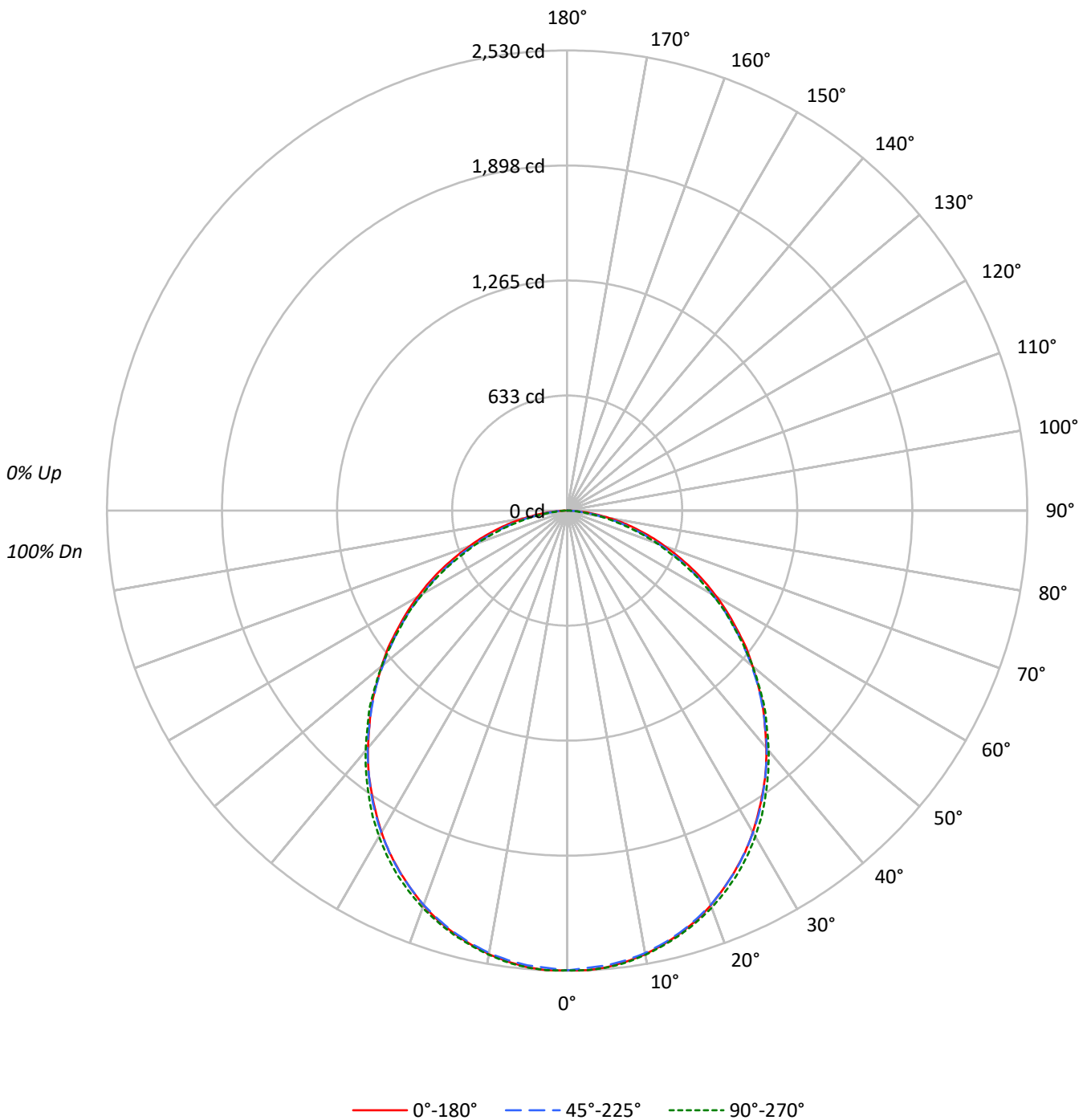
Lumens per Lamp: N/A
Luminaire Lumens: 6485.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	3871	3871	3871
5°	3874	3858	3877
10°	3852	3842	3858
15°	3814	3808	3827
20°	3764	3761	3787
25°	3692	3696	3734
30°	3612	3615	3659
35°	3513	3517	3559
40°	3406	3414	3447
45°	3297	3288	3328
50°	3169	3150	3174
55°	3040	3002	2991
60°	2912	2825	2812
65°	2750	2632	2595
70°	2549	2394	2348
75°	2342	2113	2004
80°	2052	1763	1602
85°	1685	1220	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.7
10°-20°	678.5	10.5
20°-30°	1009.5	15.6
30°-40°	1179.4	18.2
40°-50°	1172.4	18.1
50°-60°	1007.4	15.5
60°-70°	723.5	11.2
70°-80°	385.3	5.9
80°-90°	90.3	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°	1926.8	29.7
0°-40°	3106.2	47.9
0°-60°	5286.0	81.5
0°-90°	6485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2528	2528	2528	2528	2528	
5°	2520	2515	2509	2517	2522	239
15°	2405	2405	2401	2409	2413	678
25°	2185	2185	2187	2203	2209	1006
35°	1879	1875	1881	1901	1903	1175
45°	1522	1510	1518	1526	1536	1172
55°	1138	1124	1124	1124	1120	1021
65°	759	736	726	718	716	751
75°	396	373	357	347	339	421
85°	96	82	69	57	55	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2527.6	2527.6	2527.6	2527.6	2527.6
2.5°	2529.7	2525.6	2517.4	2527.6	2529.7
5°	2519.5	2515.4	2509.3	2517.4	2521.5
7.5°	2501.1	2497.0	2493.0	2501.1	2505.2
10°	2476.6	2474.6	2470.5	2480.7	2480.7
12.5°	2444.0	2442.0	2437.9	2448.1	2448.1
15°	2405.2	2405.2	2401.2	2409.3	2413.4
17.5°	2362.4	2360.4	2356.3	2366.5	2370.6
20°	2309.4	2309.4	2307.3	2319.6	2323.6
22.5°	2248.2	2248.2	2248.2	2264.5	2268.6
25°	2184.9	2184.9	2187.0	2203.3	2209.4
27.5°	2117.6	2115.5	2117.6	2135.9	2142.1
30°	2042.1	2038.0	2044.1	2062.5	2068.6
32.5°	1960.5	1956.4	1966.6	1982.9	1991.1
35°	1878.9	1874.8	1880.9	1901.3	1903.4
37.5°	1795.3	1785.1	1795.3	1813.6	1815.7
40°	1703.5	1695.3	1707.5	1715.7	1723.9
42.5°	1609.6	1605.5	1611.7	1625.9	1625.9
45°	1521.9	1509.6	1517.8	1526.0	1536.2
47.5°	1424.0	1417.8	1421.9	1428.0	1432.1
50°	1330.1	1319.9	1322.0	1328.1	1332.2
52.5°	1242.4	1222.0	1222.0	1226.1	1226.1
55°	1138.4	1124.1	1124.1	1124.1	1120.0
57.5°	1046.6	1028.2	1026.2	1026.2	1026.2
60°	950.7	928.2	922.1	922.1	918.0
62.5°	854.8	834.4	826.2	818.1	818.1
65°	758.9	736.5	726.3	718.1	716.1
67.5°	661.0	644.7	632.4	622.2	612.0
70°	569.2	550.8	534.5	524.3	524.3
72.5°	483.5	463.1	446.8	434.5	428.4
75°	395.8	373.3	357.0	346.8	338.7
77.5°	318.3	293.8	277.4	263.2	255.0
80°	232.6	214.2	199.9	185.6	181.6
82.5°	161.2	146.9	130.6	120.4	116.3
85°	95.9	81.6	69.4	57.1	55.1
87.5°	38.8	28.6	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)