

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: P229914

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)  
Test Lab: INNOVATION CENTER-G3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-74-RDP-UNV-L835-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (252)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6088.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

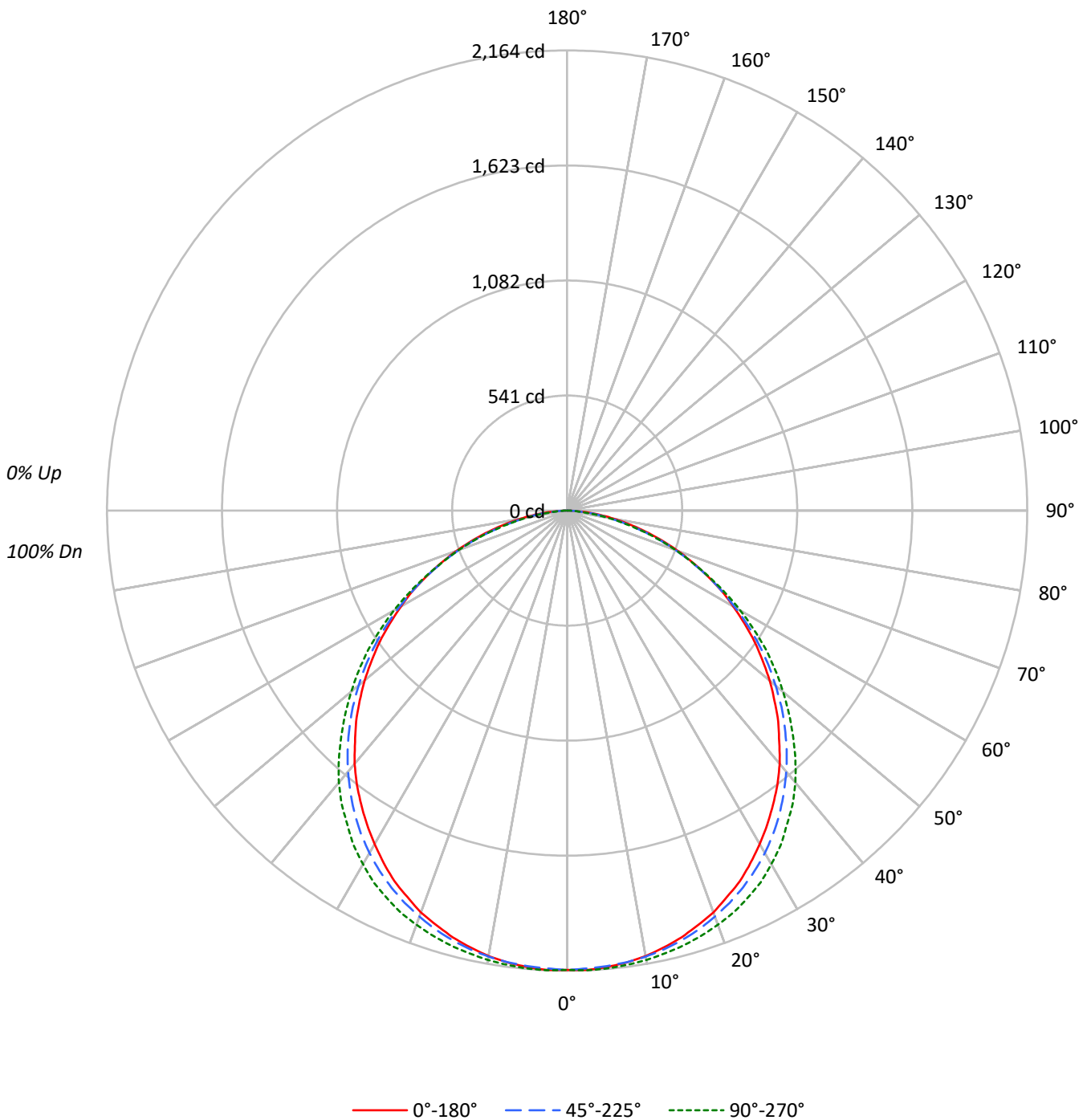
Input Watts (W): 61.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3309	3309	3309
5°	3313	3306	3323
10°	3308	3312	3338
15°	3294	3315	3357
20°	3277	3312	3378
25°	3250	3305	3395
30°	3203	3288	3396
35°	3156	3256	3370
40°	3109	3205	3339
45°	3041	3137	3255
50°	2964	3048	3157
55°	2874	2945	3050
60°	2764	2799	2885
65°	2636	2636	2663
70°	2478	2433	2427
75°	2261	2126	2118
80°	1971	1769	1690
85°	1561	1227	960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	3.4
10°-20°	591.2	9.7
20°-30°	903.4	14.8
30°-40°	1089.8	17.9
40°-50°	1117.0	18.3
50°-60°	984.1	16.2
60°-70°	720.3	11.8
70°-80°	387.1	6.4
80°-90°	90.1	1.5
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°	1699.6	27.9
0°-40°	2789.4	45.8
0°-60°	4890.5	80.3
0°-90°	6088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2155	2152	2150	2156	2161	205
15°	2078	2080	2090	2107	2117	586
25°	1923	1928	1956	1994	2009	885
35°	1688	1697	1741	1790	1802	1056
45°	1404	1402	1448	1490	1503	1081
55°	1076	1070	1103	1128	1142	961
65°	727	714	727	736	735	721
75°	382	364	359	359	358	406
85°	89	79	70	57	55	106
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2162.7	2158.9	2155.0	2158.9	2163.9
5°	2155.0	2152.5	2150.0	2156.3	2161.4
7.5°	2143.6	2141.1	2142.4	2151.2	2155.0
10°	2127.1	2127.1	2129.7	2139.8	2146.2
12.5°	2104.3	2105.5	2113.2	2125.9	2132.2
15°	2077.6	2080.2	2090.3	2106.8	2117.0
17.5°	2044.6	2051.0	2064.9	2085.2	2096.7
20°	2010.4	2014.2	2031.9	2061.1	2072.6
22.5°	1965.9	1973.6	1996.4	2030.7	2045.9
25°	1922.8	1927.9	1955.8	1993.9	2009.1
27.5°	1868.2	1875.8	1910.1	1954.5	1971.0
30°	1811.1	1820.0	1859.3	1902.5	1920.3
32.5°	1751.5	1762.9	1803.5	1849.2	1868.2
35°	1688.0	1696.9	1741.3	1789.5	1802.2
37.5°	1624.5	1627.1	1674.0	1721.0	1741.3
40°	1554.7	1557.3	1603.0	1647.4	1670.2
42.5°	1476.0	1483.7	1528.1	1571.2	1589.0
45°	1403.7	1402.4	1448.1	1490.0	1502.7
47.5°	1322.5	1325.0	1366.9	1407.5	1415.1
50°	1243.8	1242.5	1279.3	1314.9	1325.0
52.5°	1157.5	1156.2	1193.0	1222.2	1234.9
55°	1076.3	1069.9	1102.9	1128.3	1142.3
57.5°	988.7	979.8	1009.0	1034.4	1040.7
60°	902.4	892.2	913.8	932.8	941.7
62.5°	819.9	807.2	821.2	837.7	838.9
65°	727.2	714.5	727.2	736.1	734.8
67.5°	639.7	625.7	632.0	635.9	634.6
70°	553.4	534.3	543.2	540.7	541.9
72.5°	467.1	451.8	450.6	446.7	450.6
75°	382.0	364.3	359.2	359.2	357.9
77.5°	300.8	283.0	277.9	275.4	271.6
80°	223.4	209.4	200.5	199.3	191.6
82.5°	157.4	139.6	137.1	125.6	118.0
85°	88.8	78.7	69.8	57.1	54.6
87.5°	33.0	29.2	22.8	21.6	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)