

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: P229841

Luminaire Tested: **24RLN-LD5-55-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229841
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-LD5-55-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: 5266.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

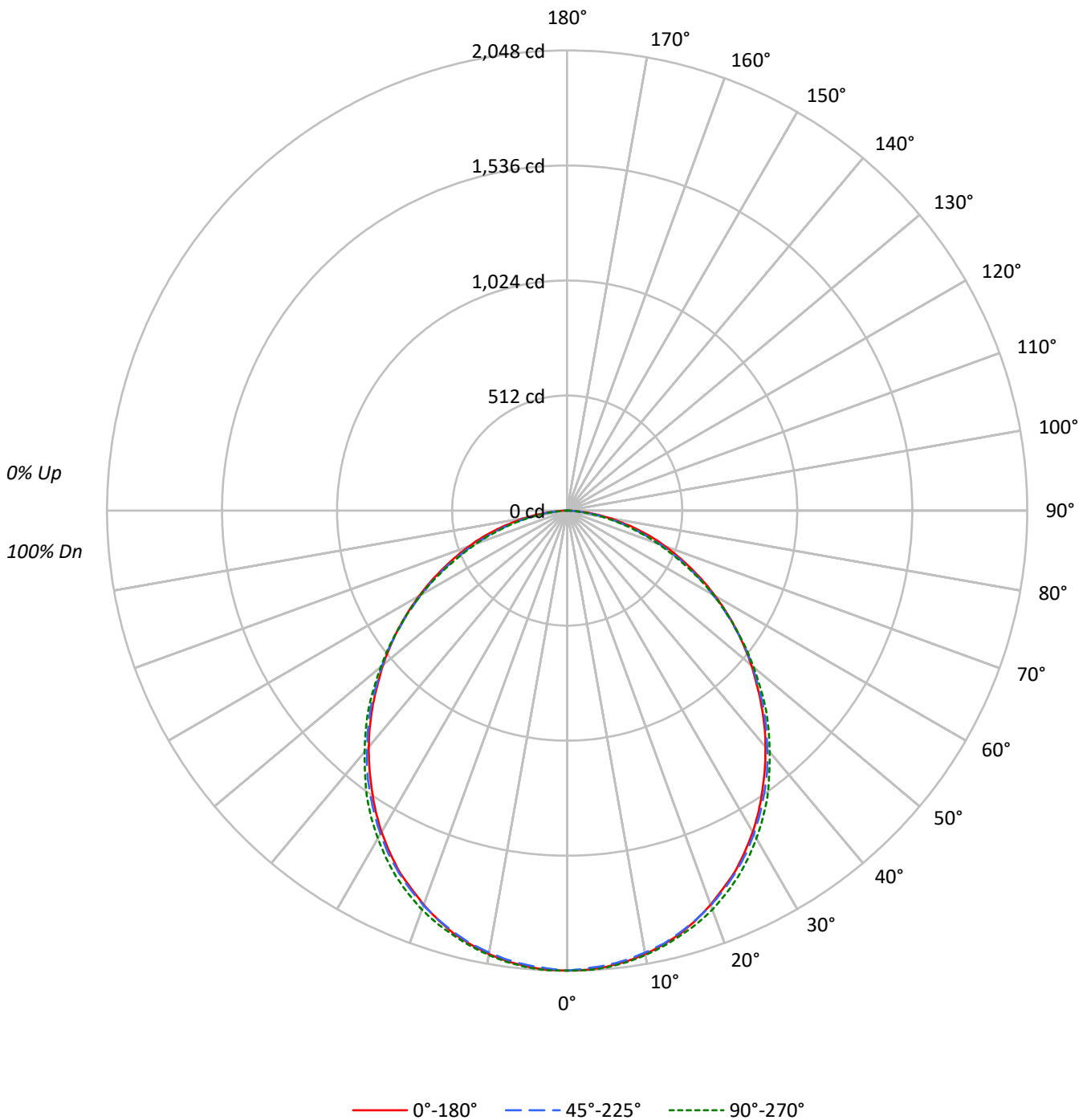
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3136	3136	3136
5°	3133	3122	3138
10°	3117	3106	3125
15°	3090	3082	3103
20°	3042	3048	3080
25°	2993	3001	3041
30°	2921	2939	2981
35°	2834	2863	2907
40°	2746	2769	2803
45°	2648	2673	2710
50°	2549	2561	2581
55°	2450	2436	2445
60°	2332	2296	2306
65°	2200	2151	2115
70°	2080	1968	1923
75°	1915	1746	1687
80°	1686	1479	1390
85°	1327	1032	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	3.7
10°-20°	549.5	10.4
20°-30°	819.0	15.6
30°-40°	957.5	18.2
40°-50°	950.8	18.1
50°-60°	816.5	15.5
60°-70°	588.2	11.2
70°-80°	316.7	6.0
80°-90°	74.7	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°	1561.7	29.7
0°-40°	2519.2	47.8
0°-60°	4286.5	81.4
0°-90°	5266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2038	2036	2031	2038	2041	193
15°	1949	1944	1944	1955	1957	549
25°	1771	1764	1776	1794	1799	814
35°	1516	1514	1531	1548	1554	948
45°	1222	1219	1234	1244	1251	943
55°	917	909	912	917	916	819
65°	607	597	594	589	584	603
75°	324	304	295	287	285	343
85°	76	69	59	47	44	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.5	2047.5	2047.5	2047.5	2047.5
2.5°	2045.8	2044.2	2039.1	2045.8	2047.5
5°	2037.5	2035.8	2030.8	2037.5	2040.8
7.5°	2024.0	2020.7	2017.3	2024.0	2027.4
10°	2003.9	2000.6	1997.2	2005.6	2009.0
12.5°	1978.8	1975.4	1975.4	1982.1	1985.5
15°	1948.6	1943.6	1943.6	1955.3	1957.0
17.5°	1910.0	1906.7	1908.3	1921.8	1926.8
20°	1866.4	1864.7	1869.8	1884.9	1889.9
22.5°	1817.8	1816.1	1824.5	1842.9	1846.3
25°	1770.8	1764.1	1775.9	1794.3	1799.3
27.5°	1712.1	1707.1	1722.2	1739.0	1744.0
30°	1651.8	1646.7	1661.8	1680.3	1685.3
32.5°	1586.4	1583.0	1598.1	1616.6	1621.6
35°	1515.9	1514.3	1531.0	1547.8	1554.5
37.5°	1445.5	1443.8	1462.3	1475.7	1477.4
40°	1373.4	1370.0	1385.1	1400.2	1401.9
42.5°	1299.6	1294.6	1311.4	1323.1	1328.1
45°	1222.5	1219.1	1234.2	1244.3	1251.0
47.5°	1143.7	1143.7	1152.0	1163.8	1165.5
50°	1069.9	1064.8	1074.9	1081.6	1083.3
52.5°	992.7	987.7	996.1	997.8	1001.1
55°	917.3	908.9	912.2	917.3	915.6
57.5°	838.5	825.0	831.8	831.8	835.1
60°	761.3	749.6	749.6	749.6	752.9
62.5°	684.2	672.4	672.4	670.8	669.1
65°	607.0	597.0	593.6	588.6	583.6
67.5°	533.3	521.5	514.8	508.1	503.1
70°	464.5	444.4	439.4	429.3	429.3
72.5°	395.8	375.6	365.6	358.9	357.2
75°	323.6	303.5	295.1	286.8	285.1
77.5°	253.2	239.8	226.4	219.7	216.3
80°	191.2	179.4	167.7	156.0	157.6
82.5°	130.8	119.1	110.7	100.6	97.3
85°	75.5	68.8	58.7	47.0	43.6
87.5°	31.9	23.5	16.8	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)