

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: P229851

Luminaire Tested: **24RLN-LD5-55-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229851
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-L835-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5486.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

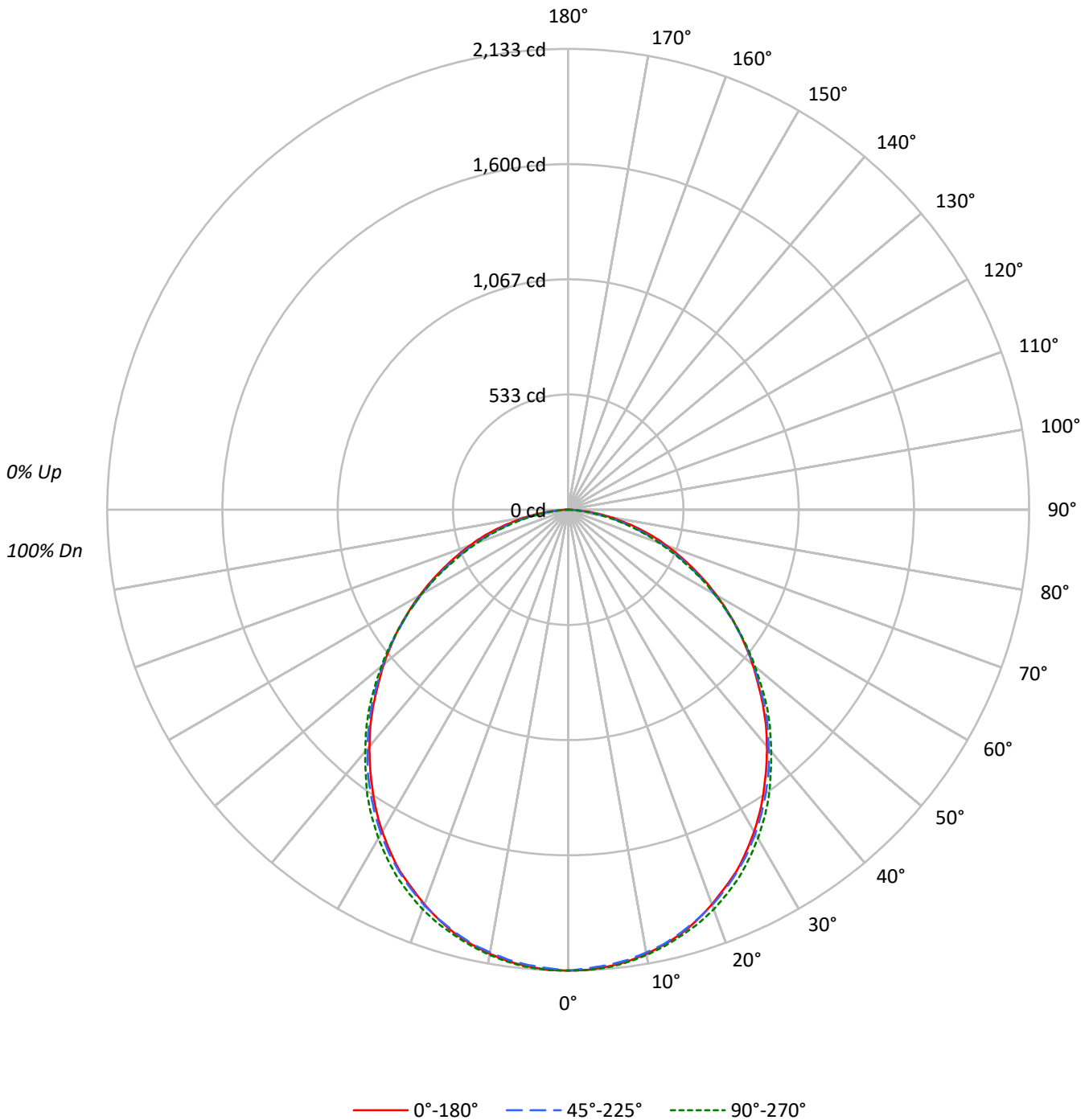
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3267	3267	3267
5°	3264	3253	3269
10°	3247	3236	3255
15°	3219	3211	3233
20°	3169	3175	3209
25°	3118	3127	3168
30°	3043	3062	3105
35°	2953	2982	3028
40°	2861	2885	2920
45°	2759	2785	2823
50°	2656	2668	2689
55°	2552	2538	2547
60°	2430	2392	2403
65°	2292	2241	2203
70°	2167	2050	2003
75°	1996	1820	1758
80°	1757	1541	1448
85°	1381	1074	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	3.7
10°-20°	572.4	10.4
20°-30°	853.2	15.6
30°-40°	997.5	18.2
40°-50°	990.5	18.1
50°-60°	850.6	15.5
60°-70°	612.7	11.2
70°-80°	329.9	6.0
80°-90°	77.8	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°	1627.0	29.7
0°-40°	2624.5	47.8
0°-60°	4465.6	81.4
0°-90°	5486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2133	2133	2133	2133	2133	
5°	2123	2121	2116	2123	2126	202
15°	2030	2025	2025	2037	2039	572
25°	1845	1838	1850	1869	1874	848
35°	1579	1578	1595	1612	1620	988
45°	1274	1270	1286	1296	1303	982
55°	956	947	950	956	954	853
65°	632	622	618	613	608	628
75°	337	316	308	299	297	357
85°	79	72	61	49	45	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2133.1	2133.1	2133.1	2133.1	2133.1
2.5°	2131.3	2129.6	2124.3	2131.3	2133.1
5°	2122.6	2120.8	2115.6	2122.6	2126.1
7.5°	2108.6	2105.1	2101.6	2108.6	2112.1
10°	2087.6	2084.1	2080.7	2089.4	2092.9
12.5°	2061.4	2057.9	2057.9	2064.9	2068.4
15°	2030.0	2024.8	2024.8	2037.0	2038.7
17.5°	1989.8	1986.3	1988.1	2002.0	2007.3
20°	1944.4	1942.6	1947.9	1963.6	1968.8
22.5°	1893.7	1892.0	1900.7	1919.9	1923.4
25°	1844.8	1837.8	1850.1	1869.3	1874.5
27.5°	1783.7	1778.4	1794.1	1811.6	1816.9
30°	1720.8	1715.5	1731.3	1750.5	1755.7
32.5°	1652.6	1649.1	1664.9	1684.1	1689.3
35°	1579.3	1577.5	1595.0	1612.5	1619.5
37.5°	1505.9	1504.2	1523.4	1537.3	1539.1
40°	1430.8	1427.3	1443.0	1458.7	1460.5
42.5°	1353.9	1348.7	1366.1	1378.4	1383.6
45°	1273.5	1270.1	1285.8	1296.3	1303.2
47.5°	1191.4	1191.4	1200.2	1212.4	1214.2
50°	1114.6	1109.3	1119.8	1126.8	1128.5
52.5°	1034.2	1029.0	1037.7	1039.5	1042.9
55°	955.6	946.9	950.4	955.6	953.9
57.5°	873.5	859.5	866.5	866.5	870.0
60°	793.1	780.9	780.9	780.9	784.4
62.5°	712.8	700.5	700.5	698.8	697.0
65°	632.4	621.9	618.4	613.2	607.9
67.5°	555.5	543.3	536.3	529.3	524.1
70°	483.9	462.9	457.7	447.2	447.2
72.5°	412.3	391.3	380.8	373.9	372.1
75°	337.2	316.2	307.5	298.7	297.0
77.5°	263.8	249.8	235.8	228.9	225.4
80°	199.2	186.9	174.7	162.5	164.2
82.5°	136.3	124.0	115.3	104.8	101.3
85°	78.6	71.6	61.1	48.9	45.4
87.5°	33.2	24.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)