

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: P229867

Luminaire Tested: **24RLN-LD5-36-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229867
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-LD5-36-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2993.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

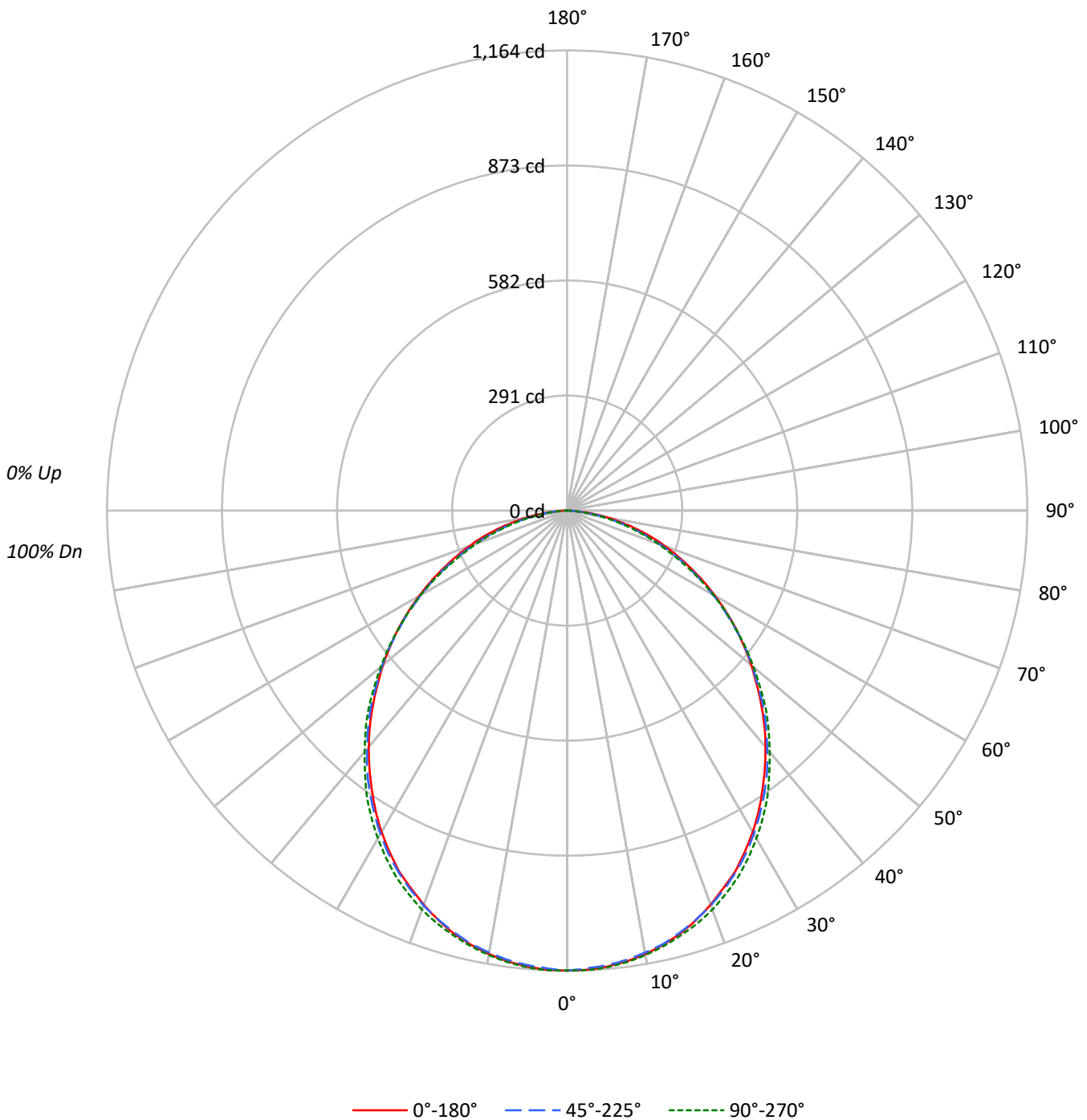
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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°	1782	1782	1782
5°	1780	1775	1783
10°	1771	1765	1776
15°	1756	1752	1764
20°	1729	1732	1751
25°	1701	1706	1728
30°	1660	1670	1694
35°	1611	1627	1652
40°	1561	1574	1593
45°	1505	1520	1540
50°	1449	1456	1467
55°	1392	1385	1390
60°	1326	1305	1311
65°	1250	1223	1202
70°	1182	1118	1093
75°	1088	992	959
80°	959	841	790
85°	754	587	436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.7
10°-20°	312.3	10.4
20°-30°	465.5	15.6
30°-40°	544.2	18.2
40°-50°	540.4	18.1
50°-60°	464.0	15.5
60°-70°	334.3	11.2
70°-80°	180.0	6.0
80°-90°	42.4	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°	887.6	29.7
0°-40°	1431.8	47.8
0°-60°	2436.3	81.4
0°-90°	2993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1158	1157	1154	1158	1160	110
15°	1108	1105	1105	1111	1112	312
25°	1006	1003	1009	1020	1023	463
35°	862	861	870	880	884	539
45°	695	693	702	707	711	536
55°	521	517	518	521	520	466
65°	345	339	337	334	332	343
75°	184	172	168	163	162	195
85°	43	39	33	27	25	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.7	1163.7	1163.7	1163.7	1163.7
2.5°	1162.8	1161.8	1159.0	1162.8	1163.7
5°	1158.0	1157.1	1154.2	1158.0	1159.9
7.5°	1150.4	1148.5	1146.6	1150.4	1152.3
10°	1139.0	1137.0	1135.1	1139.9	1141.8
12.5°	1124.7	1122.8	1122.8	1126.6	1128.5
15°	1107.5	1104.6	1104.6	1111.3	1112.3
17.5°	1085.6	1083.7	1084.6	1092.3	1095.1
20°	1060.8	1059.8	1062.7	1071.3	1074.1
22.5°	1033.2	1032.2	1037.0	1047.5	1049.4
25°	1006.5	1002.7	1009.3	1019.8	1022.7
27.5°	973.1	970.3	978.8	988.4	991.2
30°	938.8	935.9	944.5	955.0	957.9
32.5°	901.6	899.7	908.3	918.8	921.6
35°	861.6	860.7	870.2	879.7	883.5
37.5°	821.6	820.6	831.1	838.7	839.7
40°	780.6	778.7	787.3	795.8	796.8
42.5°	738.7	735.8	745.3	752.0	754.9
45°	694.8	692.9	701.5	707.2	711.0
47.5°	650.0	650.0	654.8	661.5	662.4
50°	608.1	605.2	610.9	614.8	615.7
52.5°	564.2	561.4	566.1	567.1	569.0
55°	521.3	516.6	518.5	521.3	520.4
57.5°	476.6	468.9	472.7	472.7	474.6
60°	432.7	426.0	426.0	426.0	427.9
62.5°	388.9	382.2	382.2	381.2	380.3
65°	345.0	339.3	337.4	334.5	331.7
67.5°	303.1	296.4	292.6	288.8	285.9
70°	264.0	252.6	249.7	244.0	244.0
72.5°	224.9	213.5	207.8	204.0	203.0
75°	183.9	172.5	167.7	163.0	162.0
77.5°	143.9	136.3	128.7	124.9	123.0
80°	108.7	102.0	95.3	88.6	89.6
82.5°	74.3	67.7	62.9	57.2	55.3
85°	42.9	39.1	33.4	26.7	24.8
87.5°	18.1	13.3	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)