

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: P229930

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229930
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-LD5-50-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

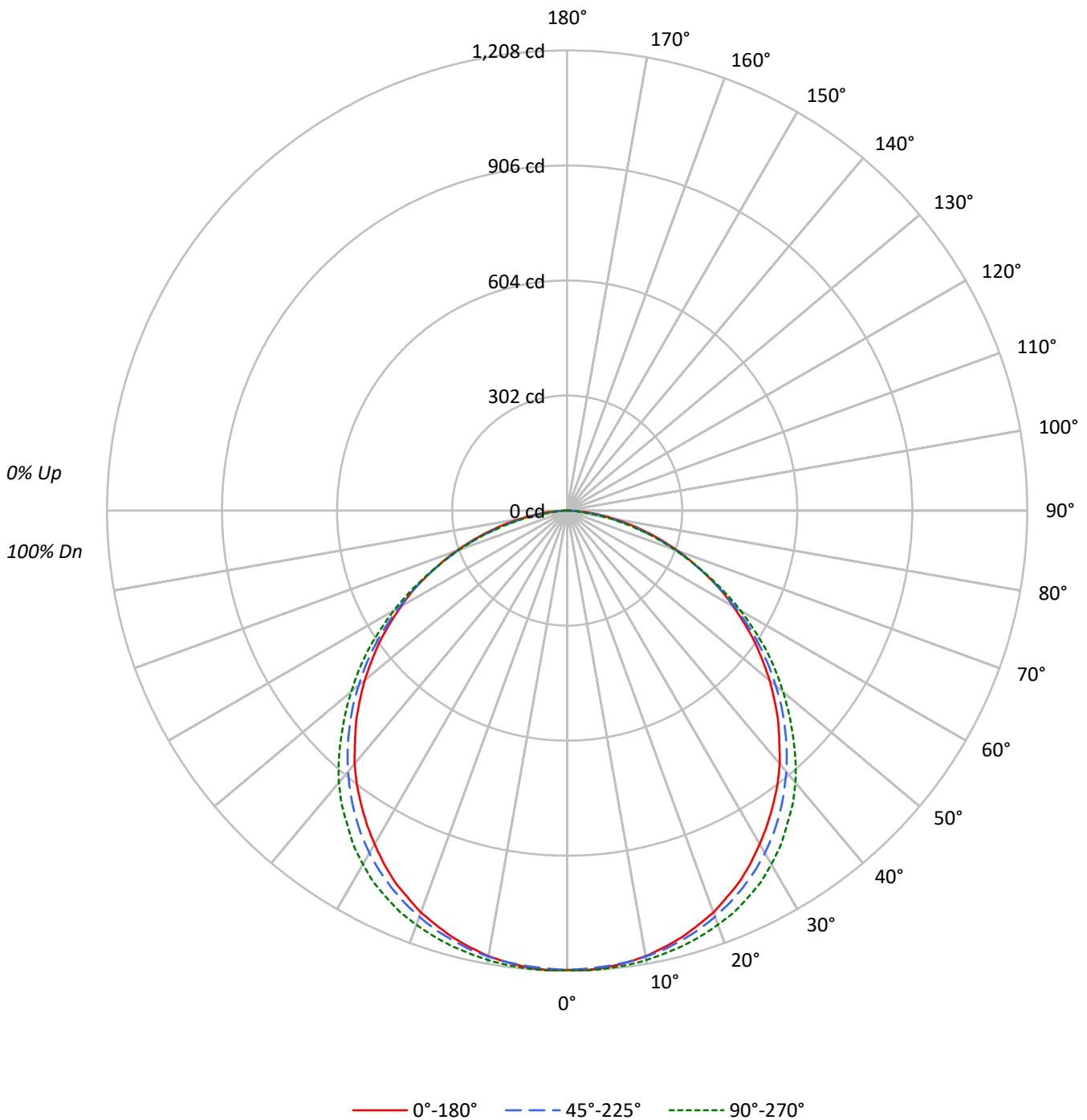
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1847	1847	1847
5°	1850	1846	1855
10°	1847	1849	1864
15°	1839	1851	1874
20°	1829	1849	1886
25°	1814	1845	1896
30°	1788	1836	1896
35°	1762	1818	1881
40°	1736	1790	1864
45°	1698	1751	1817
50°	1655	1702	1763
55°	1605	1644	1703
60°	1543	1563	1611
65°	1471	1471	1487
70°	1383	1358	1355
75°	1262	1187	1182
80°	1100	988	944
85°	872	685	536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.4
10°-20°	330.1	9.7
20°-30°	504.3	14.8
30°-40°	608.4	17.9
40°-50°	623.6	18.3
50°-60°	549.4	16.2
60°-70°	402.1	11.8
70°-80°	216.1	6.4
80°-90°	50.3	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°	948.9	27.9
0°-40°	1557.3	45.8
0°-60°	2730.4	80.3
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1203	1202	1200	1204	1207	114
15°	1160	1161	1167	1176	1182	327
25°	1074	1076	1092	1113	1122	494
35°	942	947	972	999	1006	590
45°	784	783	808	832	839	604
55°	601	597	616	630	638	536
65°	406	399	406	411	410	403
75°	213	203	200	200	200	226
85°	50	44	39	32	30	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1207.4	1205.3	1203.2	1205.3	1208.1
5°	1203.2	1201.8	1200.4	1203.9	1206.7
7.5°	1196.8	1195.4	1196.1	1201.1	1203.2
10°	1187.6	1187.6	1189.0	1194.7	1198.2
12.5°	1174.8	1175.6	1179.8	1186.9	1190.4
15°	1160.0	1161.4	1167.0	1176.3	1181.9
17.5°	1141.5	1145.1	1152.9	1164.2	1170.6
20°	1122.4	1124.5	1134.5	1150.8	1157.1
22.5°	1097.6	1101.9	1114.6	1133.7	1142.2
25°	1073.5	1076.3	1091.9	1113.2	1121.7
27.5°	1043.0	1047.3	1066.4	1091.2	1100.4
30°	1011.2	1016.1	1038.1	1062.2	1072.1
32.5°	977.9	984.2	1006.9	1032.4	1043.0
35°	942.4	947.4	972.2	999.1	1006.2
37.5°	907.0	908.4	934.6	960.8	972.2
40°	868.0	869.4	895.0	919.8	932.5
42.5°	824.1	828.3	853.1	877.2	887.2
45°	783.7	783.0	808.5	831.9	839.0
47.5°	738.4	739.8	763.2	785.8	790.1
50°	694.4	693.7	714.3	734.1	739.8
52.5°	646.2	645.5	666.1	682.4	689.5
55°	600.9	597.3	615.8	629.9	637.7
57.5°	552.0	547.0	563.3	577.5	581.0
60°	503.8	498.1	510.2	520.8	525.8
62.5°	457.7	450.7	458.5	467.7	468.4
65°	406.0	398.9	406.0	411.0	410.3
67.5°	357.1	349.3	352.9	355.0	354.3
70°	308.9	298.3	303.3	301.9	302.6
72.5°	260.8	252.3	251.5	249.4	251.5
75°	213.3	203.4	200.5	200.5	199.8
77.5°	167.9	158.0	155.2	153.8	151.6
80°	124.7	116.9	112.0	111.2	107.0
82.5°	87.9	77.9	76.5	70.2	65.9
85°	49.6	43.9	39.0	31.9	30.5
87.5°	18.4	16.3	12.8	12.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)