

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: P229940

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229940
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-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

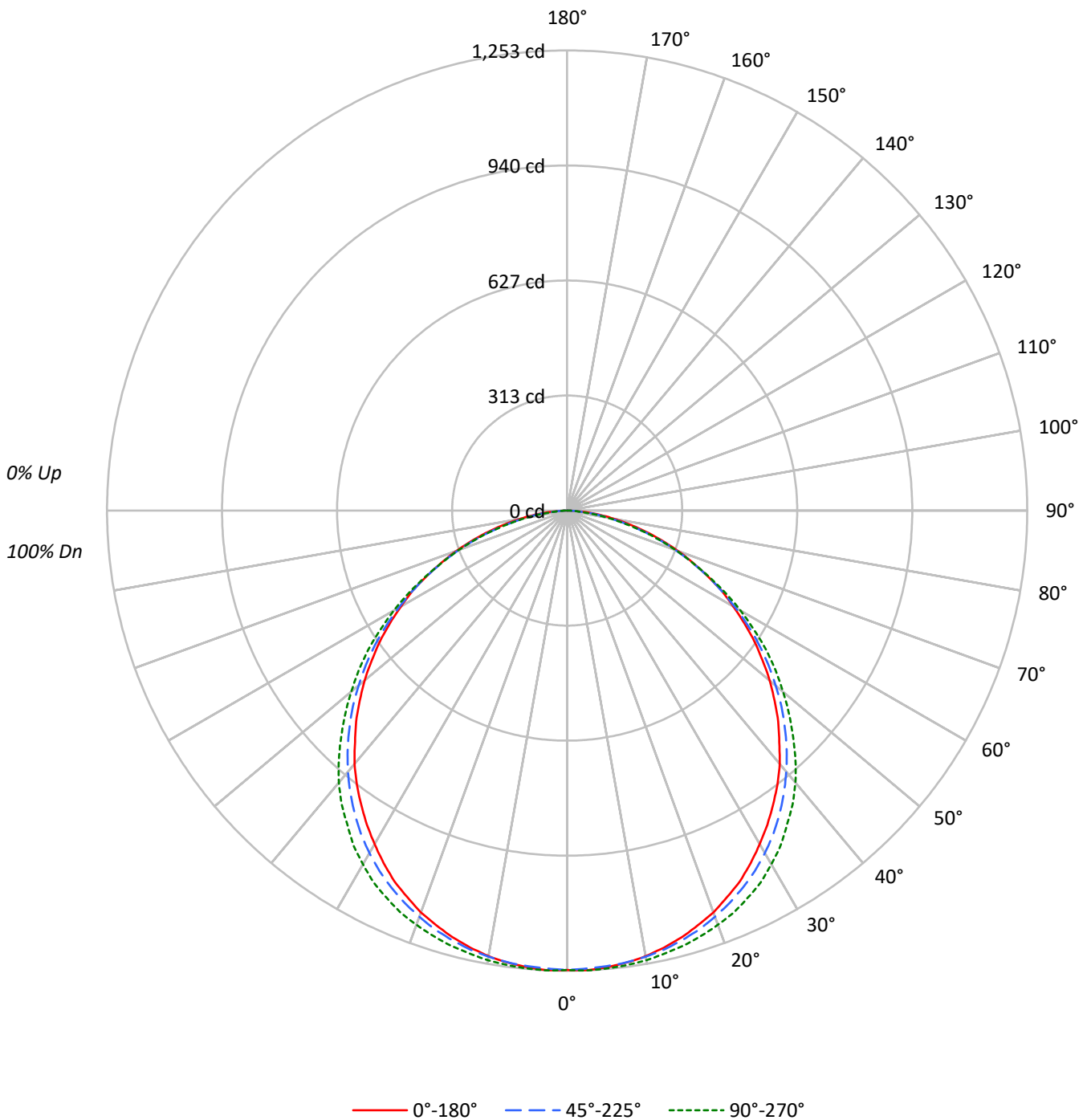
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1916	1916	1916
5°	1919	1915	1925
10°	1916	1918	1933
15°	1908	1920	1944
20°	1898	1918	1957
25°	1882	1914	1966
30°	1855	1905	1967
35°	1828	1886	1952
40°	1801	1856	1934
45°	1761	1817	1885
50°	1717	1765	1829
55°	1664	1706	1767
60°	1601	1621	1671
65°	1527	1527	1542
70°	1435	1409	1406
75°	1310	1231	1227
80°	1141	1024	979
85°	905	710	555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	3.4
10°-20°	342.4	9.7
20°-30°	523.2	14.8
30°-40°	631.2	17.9
40°-50°	646.9	18.3
50°-60°	570.0	16.2
60°-70°	417.2	11.8
70°-80°	224.2	6.4
80°-90°	52.2	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°	984.3	27.9
0°-40°	1615.5	45.8
0°-60°	2832.5	80.3
0°-90°	3526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1248	1247	1245	1249	1252	119
15°	1203	1205	1211	1220	1226	339
25°	1114	1117	1133	1155	1164	512
35°	978	983	1008	1036	1044	612
45°	813	812	839	863	870	626
55°	623	620	639	654	662	556
65°	421	414	421	426	426	418
75°	221	211	208	208	207	235
85°	52	46	40	33	32	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1252.6	1250.3	1248.1	1250.3	1253.3
5°	1248.1	1246.7	1245.2	1248.9	1251.8
7.5°	1241.5	1240.1	1240.8	1245.9	1248.1
10°	1232.0	1232.0	1233.4	1239.3	1243.0
12.5°	1218.7	1219.5	1223.9	1231.2	1234.9
15°	1203.3	1204.8	1210.7	1220.2	1226.1
17.5°	1184.2	1187.9	1196.0	1207.7	1214.3
20°	1164.3	1166.6	1176.8	1193.7	1200.4
22.5°	1138.6	1143.0	1156.3	1176.1	1184.9
25°	1113.6	1116.6	1132.7	1154.8	1163.6
27.5°	1082.0	1086.4	1106.3	1132.0	1141.6
30°	1048.9	1054.1	1076.9	1101.9	1112.2
32.5°	1014.4	1021.0	1044.5	1071.0	1082.0
35°	977.6	982.8	1008.5	1036.4	1043.8
37.5°	940.9	942.4	969.6	996.8	1008.5
40°	900.5	901.9	928.4	954.1	967.3
42.5°	854.9	859.3	885.0	910.0	920.3
45°	813.0	812.2	838.7	863.0	870.3
47.5°	765.9	767.4	791.7	815.2	819.6
50°	720.4	719.6	740.9	761.5	767.4
52.5°	670.4	669.6	691.0	707.9	715.2
55°	623.3	619.7	638.8	653.5	661.6
57.5°	572.6	567.5	584.4	599.1	602.8
60°	522.6	516.8	529.2	540.3	545.4
62.5°	474.9	467.5	475.6	485.1	485.9
65°	421.2	413.8	421.2	426.3	425.6
67.5°	370.5	362.4	366.1	368.3	367.5
70°	320.5	309.5	314.6	313.1	313.9
72.5°	270.5	261.7	260.9	258.7	260.9
75°	221.3	211.0	208.0	208.0	207.3
77.5°	174.2	163.9	161.0	159.5	157.3
80°	129.4	121.3	116.1	115.4	111.0
82.5°	91.1	80.9	79.4	72.8	68.4
85°	51.5	45.6	40.4	33.1	31.6
87.5°	19.1	16.9	13.2	12.5	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)