

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: P229810

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-RDP-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3441.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

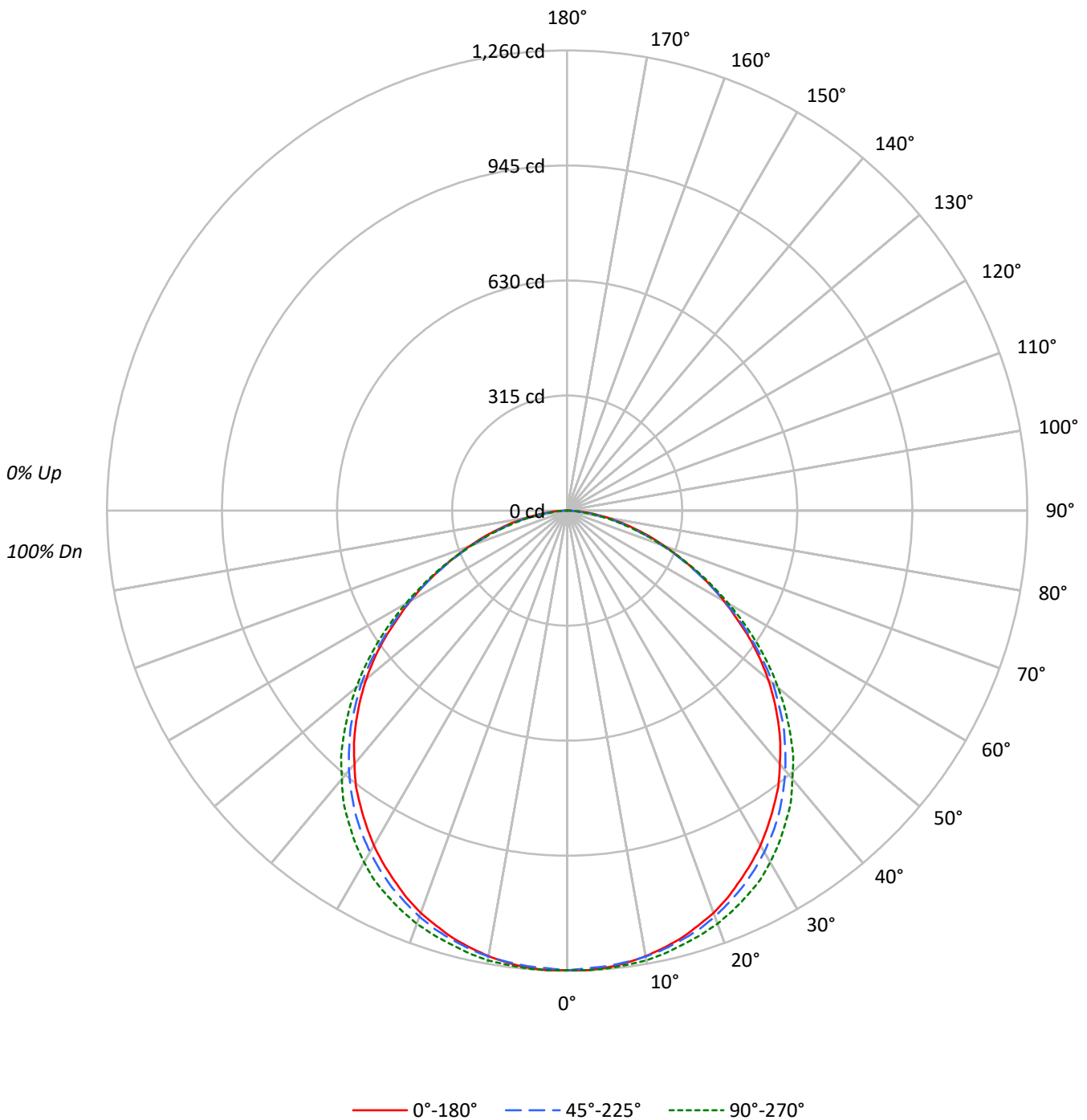
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	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		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1927	1927	1927
5°	1931	1925	1935
10°	1927	1929	1945
15°	1921	1929	1950
20°	1911	1928	1962
25°	1891	1922	1968
30°	1872	1909	1967
35°	1845	1892	1950
40°	1811	1858	1918
45°	1770	1815	1872
50°	1711	1751	1798
55°	1628	1649	1698
60°	1519	1528	1568
65°	1396	1386	1419
70°	1269	1233	1239
75°	1128	1066	1058
80°	979	875	852
85°	803	619	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.5
10°-20°	344.1	10.0
20°-30°	525.2	15.3
30°-40°	633.1	18.4
40°-50°	645.6	18.8
50°-60°	552.5	16.1
60°-70°	380.6	11.1
70°-80°	195.1	5.7
80°-90°	45.4	1.3
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°	988.6	28.7
0°-40°	1621.7	47.1
0°-60°	2819.8	81.9
0°-90°	3441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1256	1253	1252	1256	1258	119
15°	1211	1210	1217	1226	1230	342
25°	1119	1123	1137	1157	1164	516
35°	987	991	1012	1034	1043	617
45°	817	818	838	859	864	630
55°	610	606	617	630	636	544
65°	385	376	382	385	392	383
75°	191	183	180	180	179	205
85°	46	40	35	31	27	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.4	1258.4	1258.4	1258.4	1258.4
2.5°	1259.7	1257.1	1254.5	1257.1	1259.7
5°	1255.8	1253.2	1251.9	1255.8	1258.4
7.5°	1249.2	1246.6	1246.6	1251.9	1254.5
10°	1238.8	1237.5	1240.1	1245.3	1250.6
12.5°	1225.8	1225.8	1229.7	1236.2	1241.4
15°	1211.4	1210.1	1216.6	1225.8	1229.7
17.5°	1191.8	1193.1	1202.3	1212.7	1217.9
20°	1172.2	1173.5	1182.7	1197.0	1203.6
22.5°	1147.4	1150.0	1160.5	1178.8	1185.3
25°	1118.7	1122.6	1137.0	1156.6	1164.4
27.5°	1090.0	1093.9	1109.6	1131.8	1142.2
30°	1058.7	1063.9	1079.5	1103.0	1112.2
32.5°	1023.4	1027.3	1046.9	1070.4	1079.5
35°	986.9	990.8	1011.7	1033.9	1043.0
37.5°	950.3	950.3	971.2	997.3	1006.4
40°	905.9	907.2	929.4	954.2	959.5
42.5°	864.2	864.2	883.7	907.2	916.4
45°	817.2	818.5	838.1	858.9	864.2
47.5°	768.9	768.9	785.8	805.4	810.6
50°	718.0	715.3	734.9	750.6	754.5
52.5°	665.7	661.8	677.5	690.5	695.8
55°	609.6	605.7	617.4	630.5	635.7
57.5°	550.9	545.6	558.7	570.5	573.1
60°	496.0	488.2	498.7	505.2	511.7
62.5°	441.2	432.1	439.9	443.8	449.1
65°	385.1	375.9	382.5	385.1	391.6
67.5°	331.6	325.0	326.3	330.3	332.9
70°	283.3	275.4	275.4	275.4	276.7
72.5°	238.9	227.1	225.8	227.1	227.1
75°	190.6	182.8	180.1	180.1	178.8
77.5°	152.7	142.3	141.0	138.4	135.8
80°	111.0	101.8	99.2	97.9	96.6
82.5°	77.0	69.2	66.6	64.0	60.0
85°	45.7	40.5	35.2	31.3	27.4
87.5°	17.0	15.7	13.1	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)