

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: P229812

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229812
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-LD5-60-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: 4129.0 lumens
Efficiency: N/A
Efficacy: 86.6 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

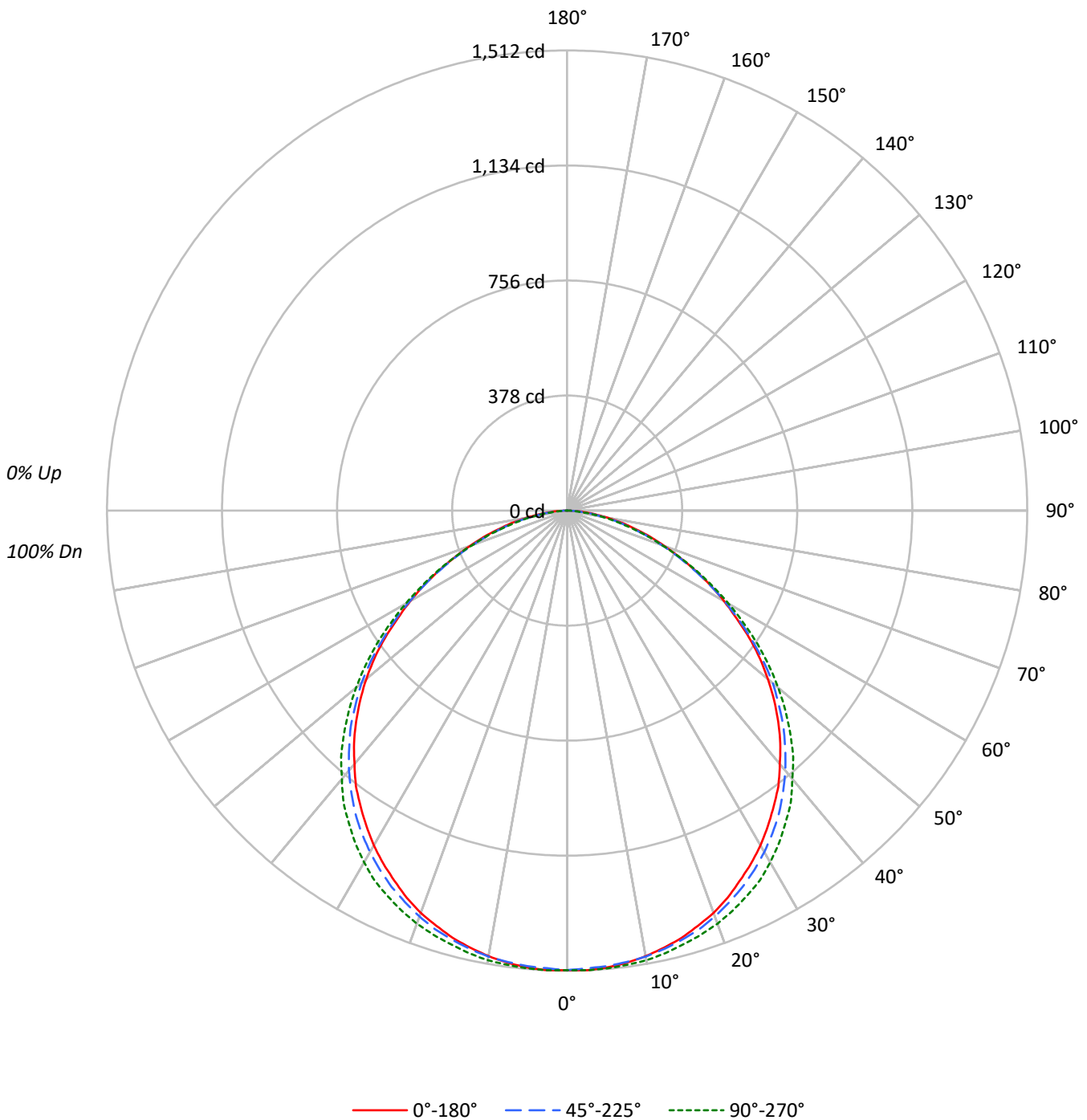
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2313	2313	2313
5°	2317	2310	2322
10°	2312	2314	2334
15°	2305	2315	2340
20°	2293	2313	2354
25°	2269	2306	2361
30°	2247	2291	2360
35°	2214	2270	2340
40°	2174	2230	2302
45°	2124	2178	2246
50°	2053	2101	2157
55°	1953	1978	2037
60°	1823	1833	1881
65°	1675	1663	1703
70°	1522	1480	1487
75°	1353	1279	1270
80°	1174	1050	1022
85°	963	743	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.5
10°-20°	412.8	10.0
20°-30°	630.2	15.3
30°-40°	759.7	18.4
40°-50°	774.7	18.8
50°-60°	663.0	16.1
60°-70°	456.7	11.1
70°-80°	234.1	5.7
80°-90°	54.5	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°	1186.2	28.7
0°-40°	1945.9	47.1
0°-60°	3383.7	81.9
0°-90°	4129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1507	1504	1502	1507	1510	143
15°	1454	1452	1460	1471	1476	410
25°	1342	1347	1364	1388	1397	619
35°	1184	1189	1214	1241	1252	741
45°	981	982	1006	1031	1037	755
55°	732	727	741	757	763	653
65°	462	451	459	462	470	459
75°	229	219	216	216	215	247
85°	55	49	42	38	33	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.0	1510.0	1510.0	1510.0	1510.0
2.5°	1511.6	1508.4	1505.3	1508.4	1511.6
5°	1506.9	1503.7	1502.2	1506.9	1510.0
7.5°	1499.0	1495.9	1495.9	1502.2	1505.3
10°	1486.5	1484.9	1488.1	1494.3	1500.6
12.5°	1470.8	1470.8	1475.5	1483.4	1489.6
15°	1453.6	1452.0	1459.9	1470.8	1475.5
17.5°	1430.1	1431.7	1442.6	1455.2	1461.4
20°	1406.6	1408.2	1419.1	1436.4	1444.2
22.5°	1376.8	1380.0	1392.5	1414.4	1422.3
25°	1342.4	1347.1	1364.3	1387.8	1397.2
27.5°	1307.9	1312.6	1331.4	1358.1	1370.6
30°	1270.3	1276.6	1295.4	1323.6	1334.6
32.5°	1228.0	1232.7	1256.2	1284.4	1295.4
35°	1184.2	1188.9	1213.9	1240.6	1251.5
37.5°	1140.3	1140.3	1165.4	1196.7	1207.7
40°	1087.1	1088.6	1115.3	1145.0	1151.3
42.5°	1036.9	1036.9	1060.4	1088.6	1099.6
45°	980.6	982.1	1005.6	1030.7	1036.9
47.5°	922.6	922.6	943.0	966.5	972.7
50°	861.5	858.4	881.9	900.7	905.4
52.5°	798.9	794.2	813.0	828.6	834.9
55°	731.5	726.8	740.9	756.6	762.8
57.5°	661.0	654.7	670.4	684.5	687.6
60°	595.2	585.8	598.4	606.2	614.0
62.5°	529.4	518.5	527.9	532.6	538.8
65°	462.1	451.1	458.9	462.1	469.9
67.5°	397.9	390.0	391.6	396.3	399.4
70°	339.9	330.5	330.5	330.5	332.1
72.5°	286.6	272.6	271.0	272.6	272.6
75°	228.7	219.3	216.2	216.2	214.6
77.5°	183.3	170.7	169.2	166.0	162.9
80°	133.1	122.2	119.0	117.5	115.9
82.5°	92.4	83.0	79.9	76.8	72.1
85°	54.8	48.6	42.3	37.6	32.9
87.5°	20.4	18.8	15.7	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)