

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: P229942

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229942
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-LD5-60-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: 4230.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

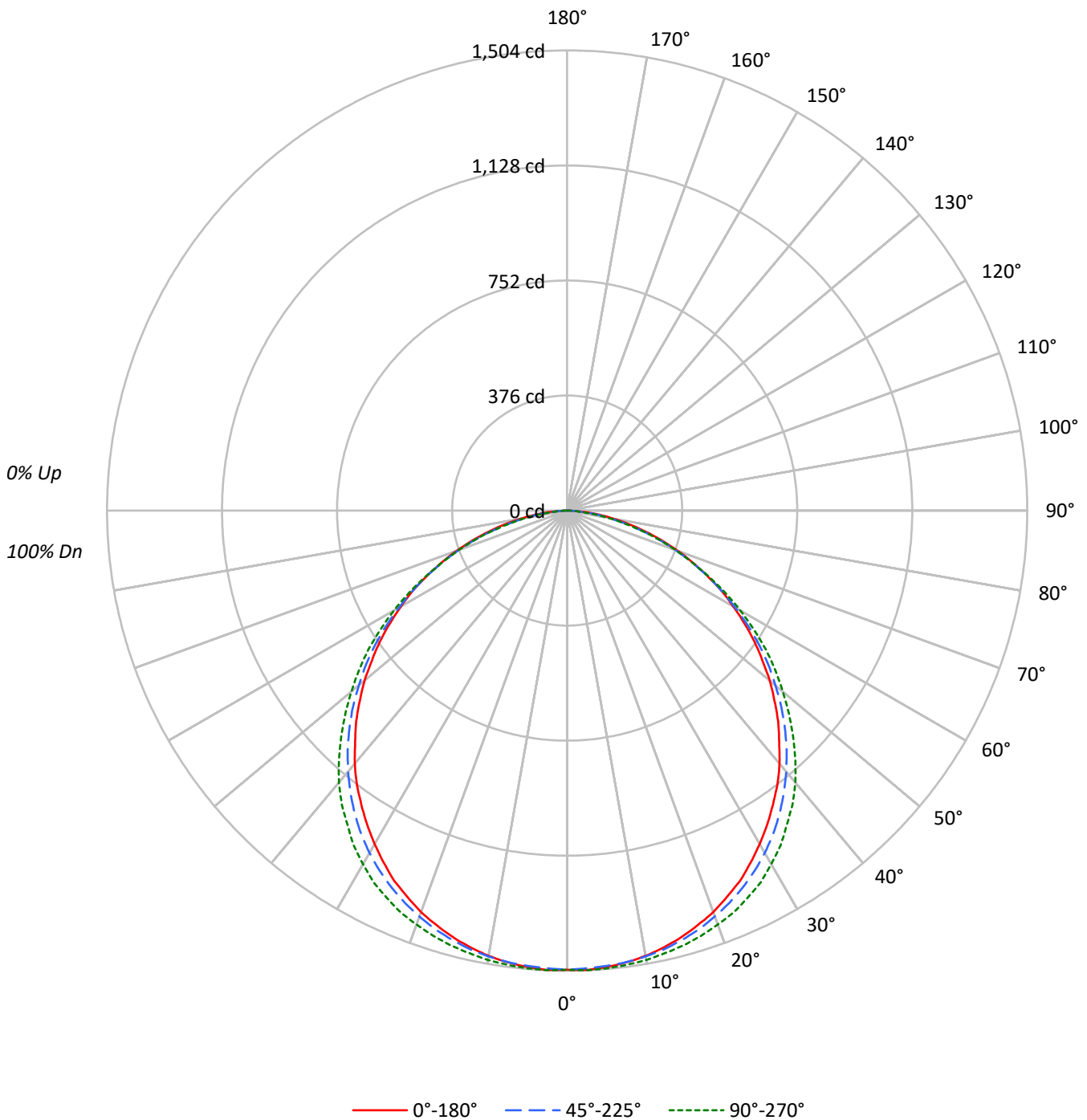
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2299	2299	2299
5°	2302	2297	2309
10°	2299	2301	2319
15°	2289	2303	2332
20°	2277	2301	2347
25°	2258	2297	2359
30°	2226	2285	2360
35°	2193	2262	2341
40°	2160	2227	2320
45°	2113	2180	2262
50°	2059	2118	2194
55°	1997	2046	2119
60°	1921	1945	2004
65°	1831	1831	1851
70°	1722	1690	1686
75°	1571	1477	1472
80°	1369	1229	1175
85°	1084	852	666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.4
10°-20°	410.8	9.7
20°-30°	627.7	14.8
30°-40°	757.2	17.9
40°-50°	776.1	18.3
50°-60°	683.8	16.2
60°-70°	500.4	11.8
70°-80°	269.0	6.4
80°-90°	62.6	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°	1180.9	27.9
0°-40°	1938.1	45.8
0°-60°	3398.0	80.3
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1497	1496	1494	1498	1502	142
15°	1444	1445	1452	1464	1471	407
25°	1336	1340	1359	1385	1396	615
35°	1173	1179	1210	1243	1252	734
45°	975	974	1006	1035	1044	751
55°	748	743	766	784	794	667
65°	505	496	505	512	511	501
75°	265	253	250	250	249	282
85°	62	55	48	40	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1502.6	1500.0	1497.3	1500.0	1503.5
5°	1497.3	1495.6	1493.8	1498.2	1501.8
7.5°	1489.4	1487.6	1488.5	1494.7	1497.3
10°	1477.9	1477.9	1479.7	1486.8	1491.2
12.5°	1462.1	1463.0	1468.2	1477.1	1481.5
15°	1443.6	1445.3	1452.4	1463.8	1470.9
17.5°	1420.6	1425.0	1434.7	1448.8	1456.8
20°	1396.8	1399.5	1411.8	1432.1	1440.0
22.5°	1366.0	1371.2	1387.1	1410.9	1421.5
25°	1336.0	1339.5	1358.9	1385.4	1395.9
27.5°	1298.1	1303.3	1327.2	1358.0	1369.5
30°	1258.4	1264.5	1291.9	1321.9	1334.2
32.5°	1216.9	1224.9	1253.1	1284.8	1298.1
35°	1172.8	1179.0	1209.9	1243.4	1252.2
37.5°	1128.7	1130.5	1163.1	1195.8	1209.9
40°	1080.2	1082.0	1113.8	1144.6	1160.5
42.5°	1025.6	1030.9	1061.7	1091.7	1104.1
45°	975.3	974.4	1006.2	1035.3	1044.1
47.5°	918.9	920.6	949.7	977.9	983.2
50°	864.2	863.3	888.9	913.6	920.6
52.5°	804.2	803.3	828.9	849.2	858.0
55°	747.8	743.4	766.3	783.9	793.6
57.5°	686.9	680.8	701.1	718.7	723.1
60°	627.0	619.9	634.9	648.1	654.3
62.5°	569.7	560.8	570.5	582.0	582.9
65°	505.3	496.5	505.3	511.5	510.6
67.5°	444.4	434.7	439.2	441.8	440.9
70°	384.5	371.3	377.4	375.7	376.5
72.5°	324.5	313.9	313.0	310.4	313.0
75°	265.4	253.1	249.6	249.6	248.7
77.5°	209.0	196.6	193.1	191.4	188.7
80°	155.2	145.5	139.3	138.4	133.2
82.5°	109.3	97.0	95.2	87.3	82.0
85°	61.7	54.7	48.5	39.7	37.9
87.5°	22.9	20.3	15.9	15.0	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)