

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: P229921

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229921
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-LD5-55-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

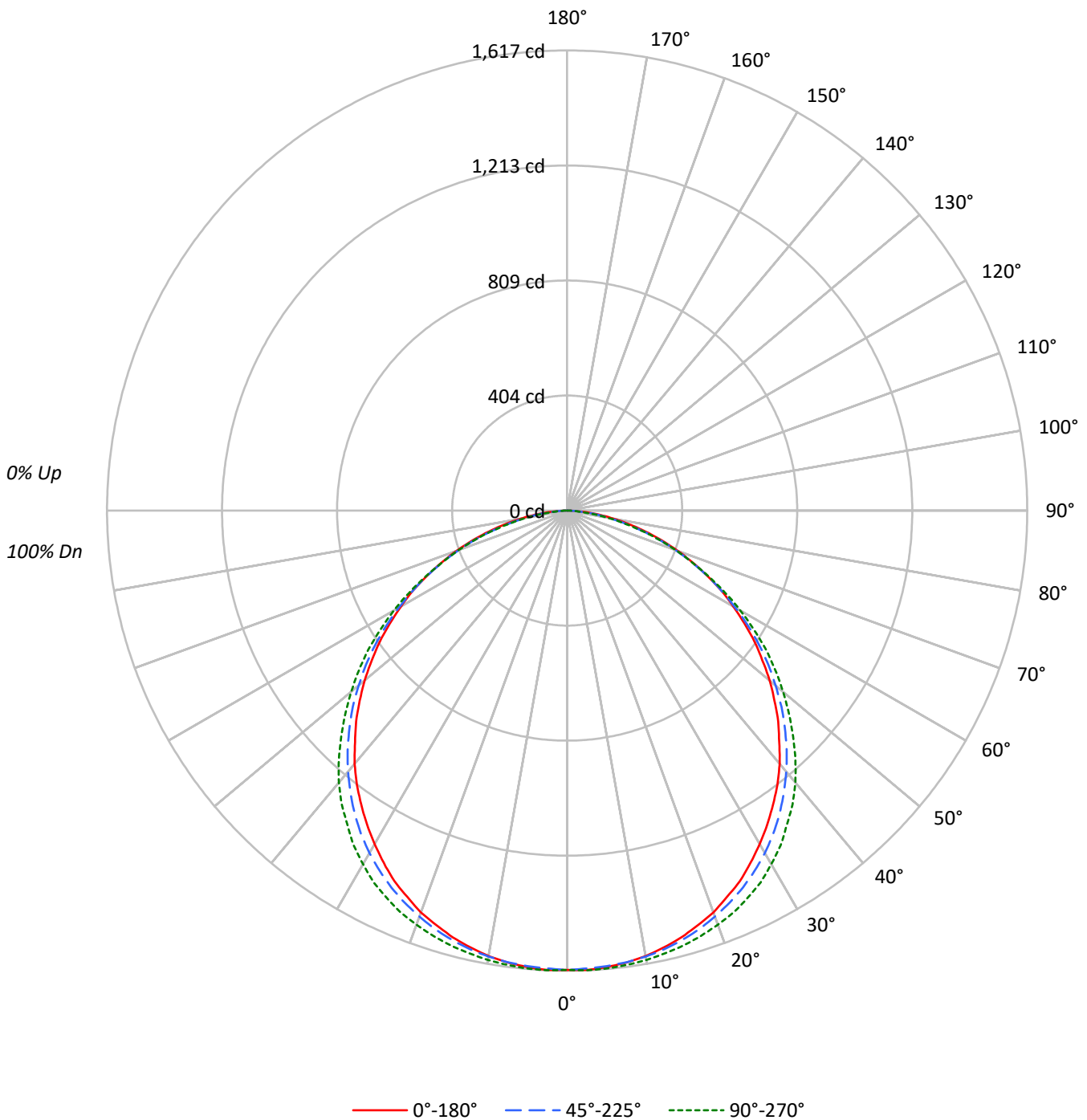
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2472	2472	2472
5°	2476	2470	2483
10°	2472	2475	2494
15°	2462	2477	2508
20°	2449	2475	2524
25°	2428	2470	2537
30°	2393	2457	2538
35°	2358	2433	2518
40°	2323	2395	2495
45°	2272	2344	2432
50°	2215	2278	2359
55°	2148	2201	2279
60°	2066	2092	2156
65°	1969	1969	1990
70°	1852	1818	1813
75°	1689	1588	1582
80°	1472	1321	1263
85°	1167	917	717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.4
10°-20°	441.8	9.7
20°-30°	675.0	14.8
30°-40°	814.3	17.9
40°-50°	834.6	18.3
50°-60°	735.3	16.2
60°-70°	538.2	11.8
70°-80°	289.2	6.4
80°-90°	67.4	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°	1269.9	27.9
0°-40°	2084.2	45.8
0°-60°	3654.2	80.3
0°-90°	4549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1610	1608	1606	1611	1615	153
15°	1552	1554	1562	1574	1582	438
25°	1437	1440	1461	1490	1501	661
35°	1261	1268	1301	1337	1347	789
45°	1049	1048	1082	1113	1123	808
55°	804	799	824	843	854	718
65°	543	534	543	550	549	539
75°	285	272	268	268	267	303
85°	66	59	52	43	41	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.1	1614.1	1614.1	1614.1	1614.1
2.5°	1616.0	1613.1	1610.3	1613.1	1616.9
5°	1610.3	1608.4	1606.5	1611.2	1615.0
7.5°	1601.7	1599.8	1600.8	1607.4	1610.3
10°	1589.4	1589.4	1591.3	1598.9	1603.6
12.5°	1572.3	1573.3	1579.0	1588.5	1593.2
15°	1552.4	1554.3	1561.9	1574.2	1581.8
17.5°	1527.8	1532.5	1542.9	1558.1	1566.6
20°	1502.2	1505.0	1518.3	1540.1	1548.6
22.5°	1469.0	1474.7	1491.7	1517.3	1528.7
25°	1436.7	1440.5	1461.4	1489.8	1501.2
27.5°	1395.9	1401.6	1427.2	1460.4	1472.8
30°	1353.3	1359.9	1389.3	1421.5	1434.8
32.5°	1308.7	1317.2	1347.6	1381.7	1395.9
35°	1261.3	1267.9	1301.1	1337.1	1346.6
37.5°	1213.9	1215.8	1250.8	1285.9	1301.1
40°	1161.7	1163.6	1197.7	1230.9	1248.0
42.5°	1102.9	1108.6	1141.8	1174.0	1187.3
45°	1048.9	1047.9	1082.0	1113.3	1122.8
47.5°	988.2	990.1	1021.4	1051.7	1057.4
50°	929.4	928.4	955.9	982.5	990.1
52.5°	864.9	863.9	891.4	913.2	922.7
55°	804.2	799.4	824.1	843.1	853.5
57.5°	738.8	732.1	753.9	772.9	777.6
60°	674.3	666.7	682.8	697.0	703.7
62.5°	612.6	603.1	613.6	625.9	626.8
65°	543.4	533.9	543.4	550.0	549.1
67.5°	478.0	467.5	472.3	475.1	474.2
70°	413.5	399.2	405.9	404.0	404.9
72.5°	349.0	337.6	336.7	333.8	336.7
75°	285.4	272.2	268.4	268.4	267.4
77.5°	224.8	211.5	207.7	205.8	202.9
80°	166.9	156.5	149.8	148.9	143.2
82.5°	117.6	104.3	102.4	93.9	88.2
85°	66.4	58.8	52.2	42.7	40.8
87.5°	24.7	21.8	17.1	16.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)