

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: P229952

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229952
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-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4340.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

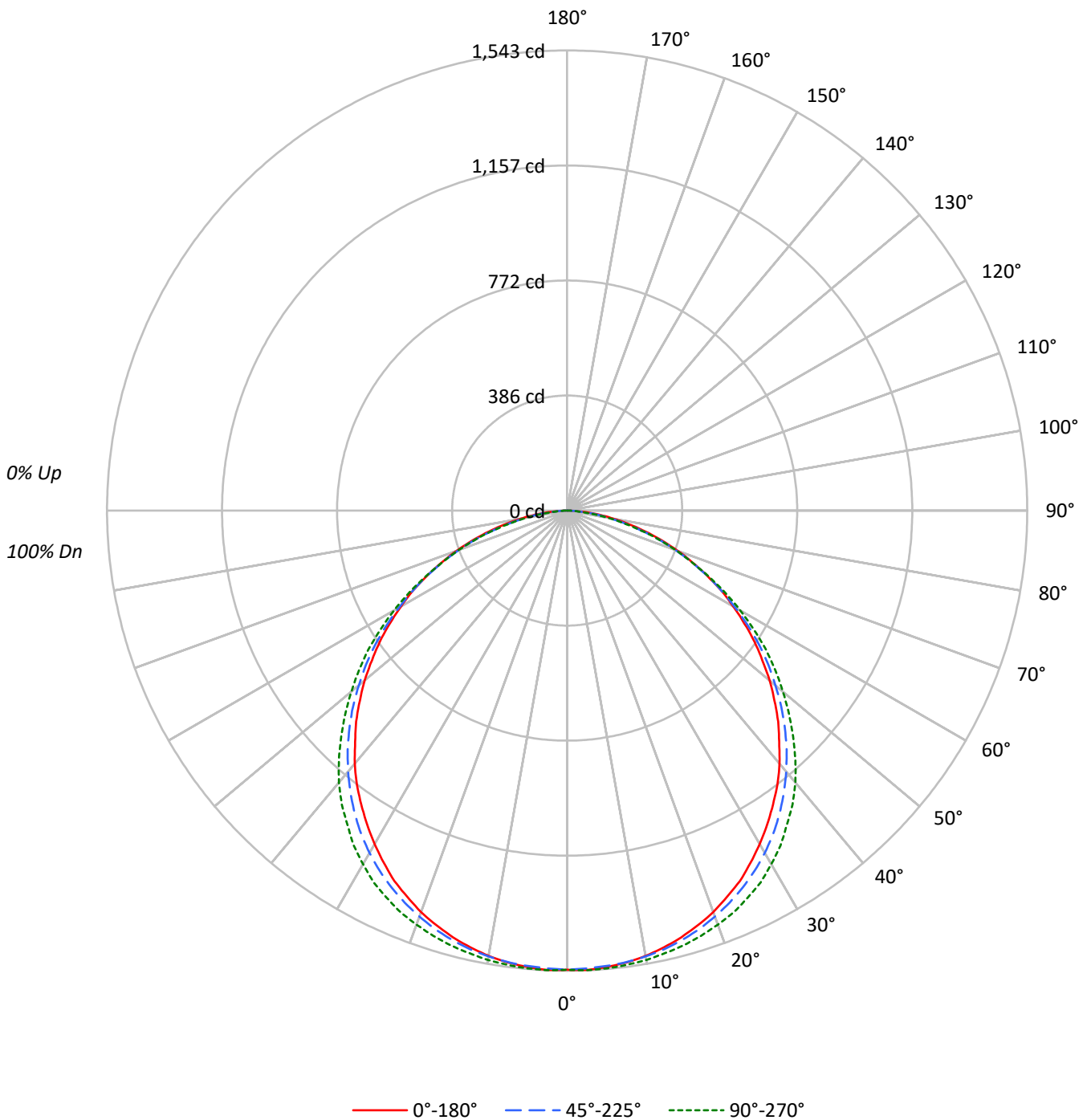
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2359	2359	2359
5°	2362	2357	2369
10°	2358	2361	2380
15°	2349	2363	2393
20°	2336	2361	2408
25°	2316	2356	2420
30°	2283	2344	2421
35°	2250	2321	2402
40°	2216	2285	2381
45°	2168	2236	2320
50°	2113	2173	2251
55°	2049	2099	2174
60°	1971	1995	2056
65°	1879	1879	1899
70°	1767	1734	1730
75°	1611	1515	1510
80°	1404	1261	1205
85°	1112	875	684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.4
10°-20°	421.5	9.7
20°-30°	644.0	14.8
30°-40°	776.9	17.9
40°-50°	796.3	18.3
50°-60°	701.6	16.2
60°-70°	513.5	11.8
70°-80°	275.9	6.4
80°-90°	64.3	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°	1211.6	27.9
0°-40°	1988.5	45.8
0°-60°	3486.3	80.3
0°-90°	4340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1536	1534	1533	1537	1541	146
15°	1481	1483	1490	1502	1509	418
25°	1371	1374	1394	1421	1432	631
35°	1203	1210	1241	1276	1285	753
45°	1001	1000	1032	1062	1071	771
55°	767	763	786	804	814	685
65°	518	509	518	525	524	514
75°	272	260	256	256	255	289
85°	63	56	50	41	39	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.9	1539.9	1539.9	1539.9	1539.9
2.5°	1541.7	1539.0	1536.3	1539.0	1542.6
5°	1536.3	1534.5	1532.7	1537.2	1540.8
7.5°	1528.1	1526.3	1527.2	1533.6	1536.3
10°	1516.4	1516.4	1518.2	1525.4	1530.0
12.5°	1500.1	1501.0	1506.4	1515.5	1520.0
15°	1481.1	1482.9	1490.1	1501.9	1509.1
17.5°	1457.6	1462.1	1472.0	1486.5	1494.7
20°	1433.1	1435.9	1448.5	1469.3	1477.5
22.5°	1401.5	1406.9	1423.2	1447.6	1458.5
25°	1370.7	1374.3	1394.2	1421.4	1432.2
27.5°	1331.8	1337.2	1361.7	1393.3	1405.1
30°	1291.1	1297.4	1325.5	1356.2	1368.9
32.5°	1248.6	1256.7	1285.7	1318.2	1331.8
35°	1203.3	1209.7	1241.3	1275.7	1284.8
37.5°	1158.1	1159.9	1193.4	1226.9	1241.3
40°	1108.3	1110.1	1142.7	1174.4	1190.7
42.5°	1052.2	1057.7	1089.3	1120.1	1132.8
45°	1000.7	999.8	1032.3	1062.2	1071.2
47.5°	942.8	944.6	974.4	1003.4	1008.8
50°	886.7	885.8	912.0	937.3	944.6
52.5°	825.1	824.2	850.5	871.3	880.3
55°	767.2	762.7	786.2	804.3	814.3
57.5°	704.8	698.5	719.3	737.4	741.9
60°	643.3	636.0	651.4	665.0	671.3
62.5°	584.5	575.4	585.4	597.1	598.0
65°	518.4	509.4	518.4	524.8	523.9
67.5°	456.0	446.0	450.6	453.3	452.4
70°	394.5	380.9	387.2	385.4	386.3
72.5°	333.0	322.1	321.2	318.5	321.2
75°	272.3	259.7	256.0	256.0	255.1
77.5°	214.4	201.8	198.1	196.3	193.6
80°	159.2	149.3	143.0	142.0	136.6
82.5°	112.2	99.5	97.7	89.6	84.1
85°	63.3	56.1	49.8	40.7	38.9
87.5°	23.5	20.8	16.3	15.4	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)