

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: P229831

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229831
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-LD5-55-RDP-UNV-L940-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4068.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

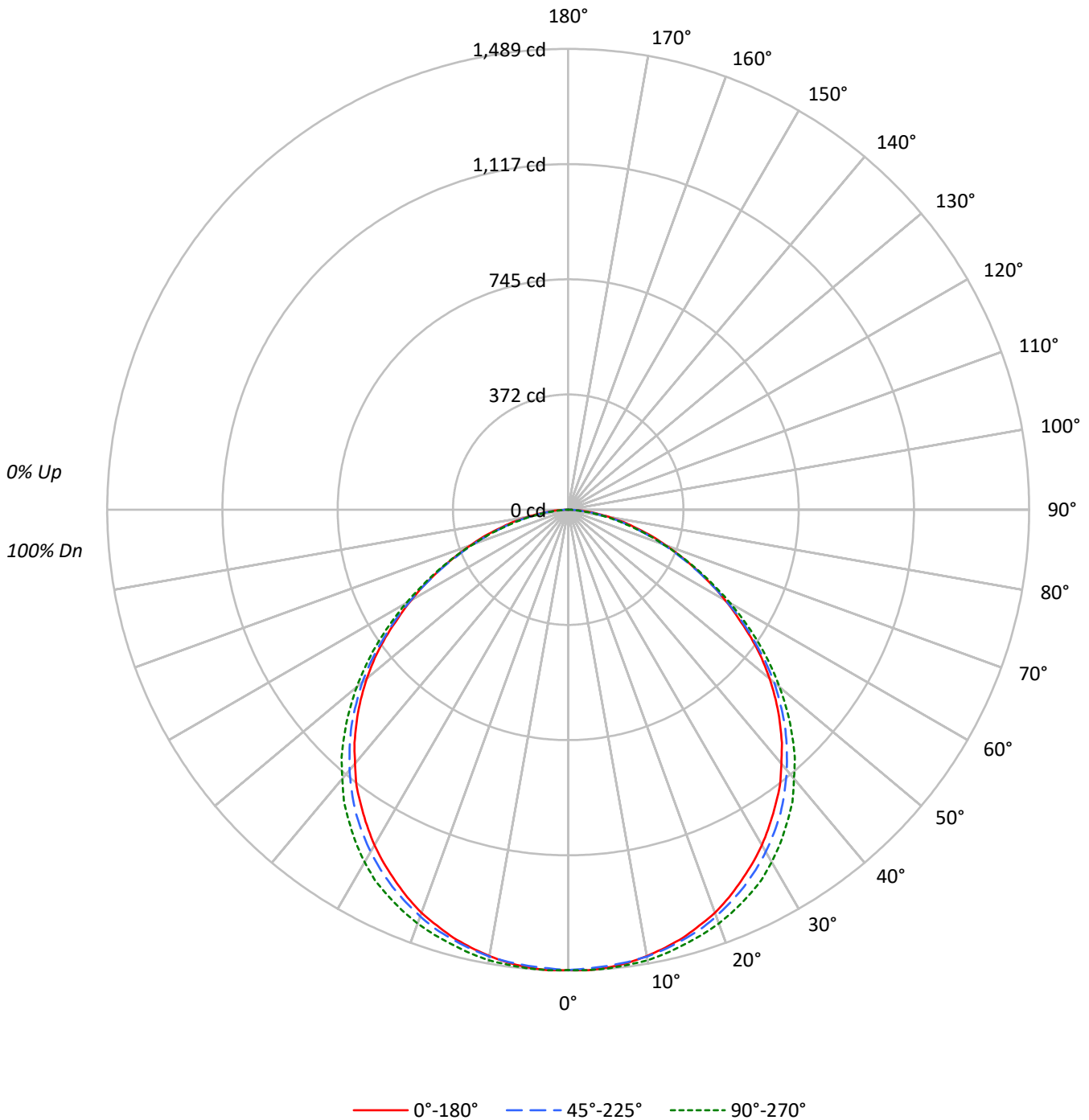
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2279	2279	2279
5°	2283	2276	2287
10°	2278	2280	2299
15°	2271	2281	2305
20°	2259	2279	2319
25°	2235	2272	2326
30°	2214	2257	2325
35°	2182	2236	2305
40°	2141	2197	2268
45°	2093	2146	2213
50°	2023	2070	2126
55°	1925	1949	2007
60°	1796	1806	1853
65°	1650	1639	1678
70°	1500	1458	1465
75°	1333	1261	1251
80°	1157	1035	1007
85°	949	733	569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.5
10°-20°	406.7	10.0
20°-30°	620.9	15.3
30°-40°	748.5	18.4
40°-50°	763.3	18.8
50°-60°	653.2	16.1
60°-70°	450.0	11.1
70°-80°	230.7	5.7
80°-90°	53.7	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°	1168.7	28.7
0°-40°	1917.2	47.1
0°-60°	3333.7	81.9
0°-90°	4068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1485	1482	1480	1485	1488	141
15°	1432	1431	1438	1449	1454	404
25°	1323	1327	1344	1367	1377	610
35°	1167	1171	1196	1222	1233	730
45°	966	968	991	1016	1022	744
55°	721	716	730	745	752	643
65°	455	444	452	455	463	452
75°	225	216	213	213	211	243
85°	54	48	42	37	32	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1489.2	1486.1	1483.1	1486.1	1489.2
5°	1484.6	1481.5	1480.0	1484.6	1487.7
7.5°	1476.9	1473.8	1473.8	1480.0	1483.1
10°	1464.5	1463.0	1466.1	1472.3	1478.4
12.5°	1449.1	1449.1	1453.7	1461.4	1467.6
15°	1432.1	1430.6	1438.3	1449.1	1453.7
17.5°	1409.0	1410.5	1421.3	1433.7	1439.8
20°	1385.8	1387.4	1398.2	1415.2	1422.9
22.5°	1356.5	1359.6	1371.9	1393.5	1401.3
25°	1322.6	1327.2	1344.2	1367.3	1376.6
27.5°	1288.6	1293.2	1311.8	1338.0	1350.3
30°	1251.6	1257.7	1276.3	1304.0	1314.8
32.5°	1209.9	1214.5	1237.7	1265.5	1276.3
35°	1166.7	1171.3	1196.0	1222.2	1233.0
37.5°	1123.5	1123.5	1148.2	1179.0	1189.8
40°	1071.0	1072.6	1098.8	1128.1	1134.3
42.5°	1021.6	1021.6	1044.8	1072.6	1083.4
45°	966.1	967.6	990.8	1015.5	1021.6
47.5°	909.0	909.0	929.0	952.2	958.4
50°	848.8	845.7	868.8	887.4	892.0
52.5°	787.1	782.4	800.9	816.4	822.5
55°	720.7	716.1	730.0	745.4	751.6
57.5°	651.2	645.1	660.5	674.4	677.5
60°	586.4	577.2	589.5	597.2	604.9
62.5°	521.6	510.8	520.1	524.7	530.9
65°	455.3	444.5	452.2	455.3	463.0
67.5°	392.0	384.3	385.8	390.4	393.5
70°	334.9	325.6	325.6	325.6	327.2
72.5°	282.4	268.5	267.0	268.5	268.5
75°	225.3	216.1	213.0	213.0	211.4
77.5°	180.6	168.2	166.7	163.6	160.5
80°	131.2	120.4	117.3	115.7	114.2
82.5°	91.1	81.8	78.7	75.6	71.0
85°	54.0	47.8	41.7	37.0	32.4
87.5°	20.1	18.5	15.4	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)