

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: P229821

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229821
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-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3965.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

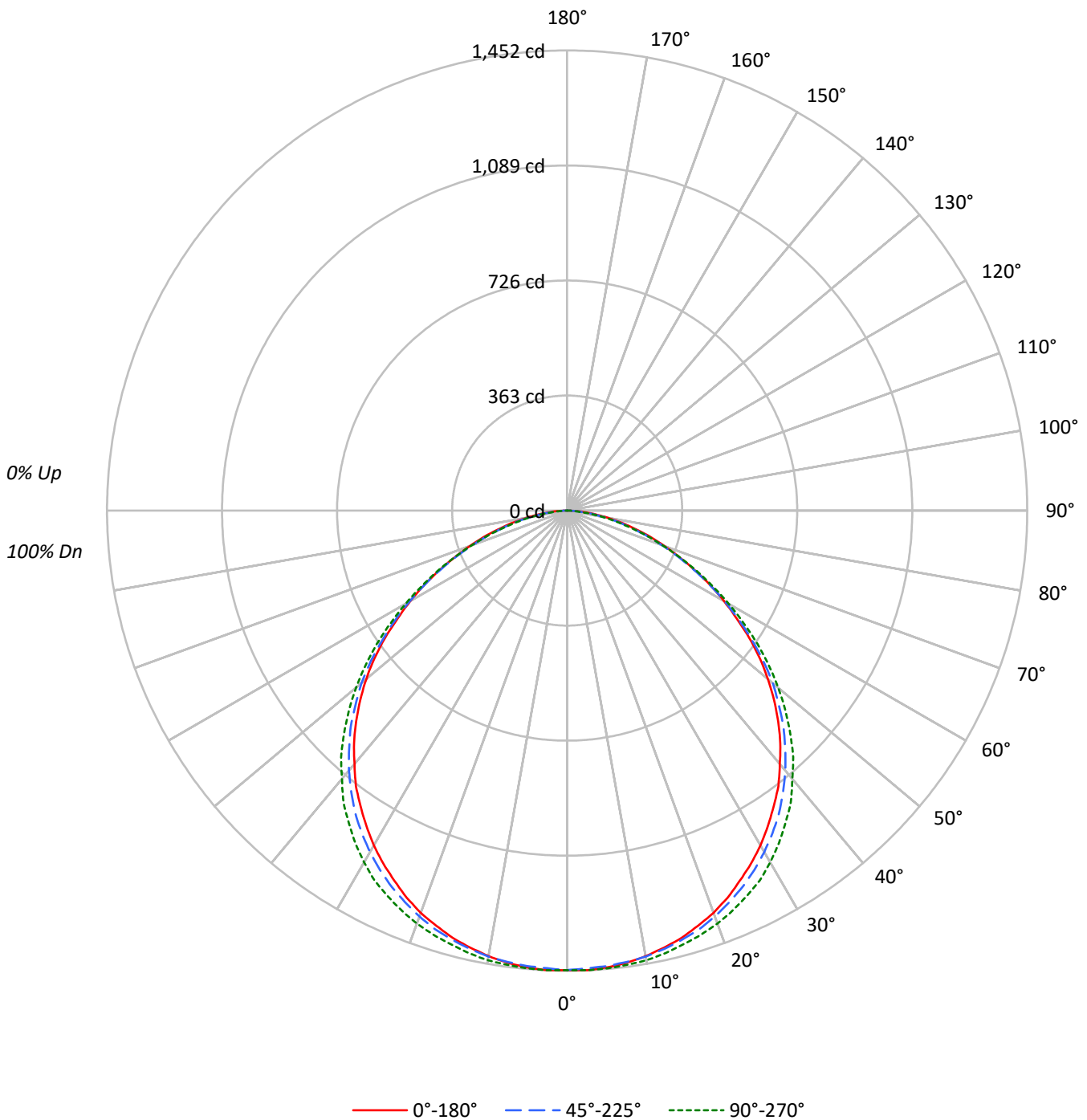
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2221	2221	2221
5°	2225	2218	2229
10°	2220	2223	2241
15°	2213	2223	2247
20°	2202	2221	2260
25°	2179	2214	2267
30°	2158	2200	2266
35°	2126	2180	2247
40°	2087	2141	2211
45°	2040	2092	2157
50°	1971	2018	2072
55°	1876	1900	1956
60°	1751	1760	1806
65°	1608	1597	1635
70°	1462	1421	1428
75°	1300	1229	1220
80°	1128	1008	982
85°	924	713	555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.5
10°-20°	396.4	10.0
20°-30°	605.1	15.3
30°-40°	729.5	18.4
40°-50°	744.0	18.8
50°-60°	636.7	16.1
60°-70°	438.6	11.1
70°-80°	224.8	5.7
80°-90°	52.3	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°	1139.1	28.7
0°-40°	1868.6	47.1
0°-60°	3249.3	81.9
0°-90°	3965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1447	1444	1442	1447	1450	138
15°	1396	1394	1402	1412	1417	394
25°	1289	1294	1310	1333	1342	594
35°	1137	1142	1166	1191	1202	711
45°	942	943	966	990	996	725
55°	702	698	712	726	732	627
65°	444	433	441	444	451	441
75°	220	211	208	208	206	237
85°	53	47	41	36	32	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1451.5	1448.5	1445.5	1448.5	1451.5
5°	1447.0	1444.0	1442.5	1447.0	1450.0
7.5°	1439.5	1436.5	1436.5	1442.5	1445.5
10°	1427.5	1425.9	1429.0	1435.0	1441.0
12.5°	1412.4	1412.4	1416.9	1424.4	1430.5
15°	1395.9	1394.4	1401.9	1412.4	1416.9
17.5°	1373.3	1374.8	1385.3	1397.4	1403.4
20°	1350.7	1352.2	1362.8	1379.3	1386.8
22.5°	1322.2	1325.2	1337.2	1358.3	1365.8
25°	1289.1	1293.6	1310.1	1332.7	1341.7
27.5°	1256.0	1260.5	1278.5	1304.1	1316.1
30°	1219.9	1225.9	1243.9	1271.0	1281.5
32.5°	1179.3	1183.8	1206.3	1233.4	1243.9
35°	1137.1	1141.7	1165.7	1191.3	1201.8
37.5°	1095.0	1095.0	1119.1	1149.2	1159.7
40°	1043.9	1045.4	1071.0	1099.5	1105.6
42.5°	995.8	995.8	1018.3	1045.4	1055.9
45°	941.6	943.1	965.7	989.7	995.8
47.5°	886.0	886.0	905.5	928.1	934.1
50°	827.3	824.3	846.8	864.9	869.4
52.5°	767.1	762.6	780.7	795.7	801.7
55°	702.4	697.9	711.5	726.5	732.5
57.5°	634.8	628.7	643.8	657.3	660.3
60°	571.6	562.6	574.6	582.1	589.6
62.5°	508.4	497.9	506.9	511.4	517.4
65°	443.7	433.2	440.7	443.7	451.2
67.5°	382.1	374.5	376.0	380.6	383.6
70°	326.4	317.4	317.4	317.4	318.9
72.5°	275.3	261.7	260.2	261.7	261.7
75°	219.6	210.6	207.6	207.6	206.1
77.5°	176.0	164.0	162.4	159.4	156.4
80°	127.9	117.3	114.3	112.8	111.3
82.5°	88.7	79.7	76.7	73.7	69.2
85°	52.6	46.6	40.6	36.1	31.6
87.5°	19.6	18.0	15.0	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)