

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: P229758

Luminaire Tested: **24RLN-LD5-42-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

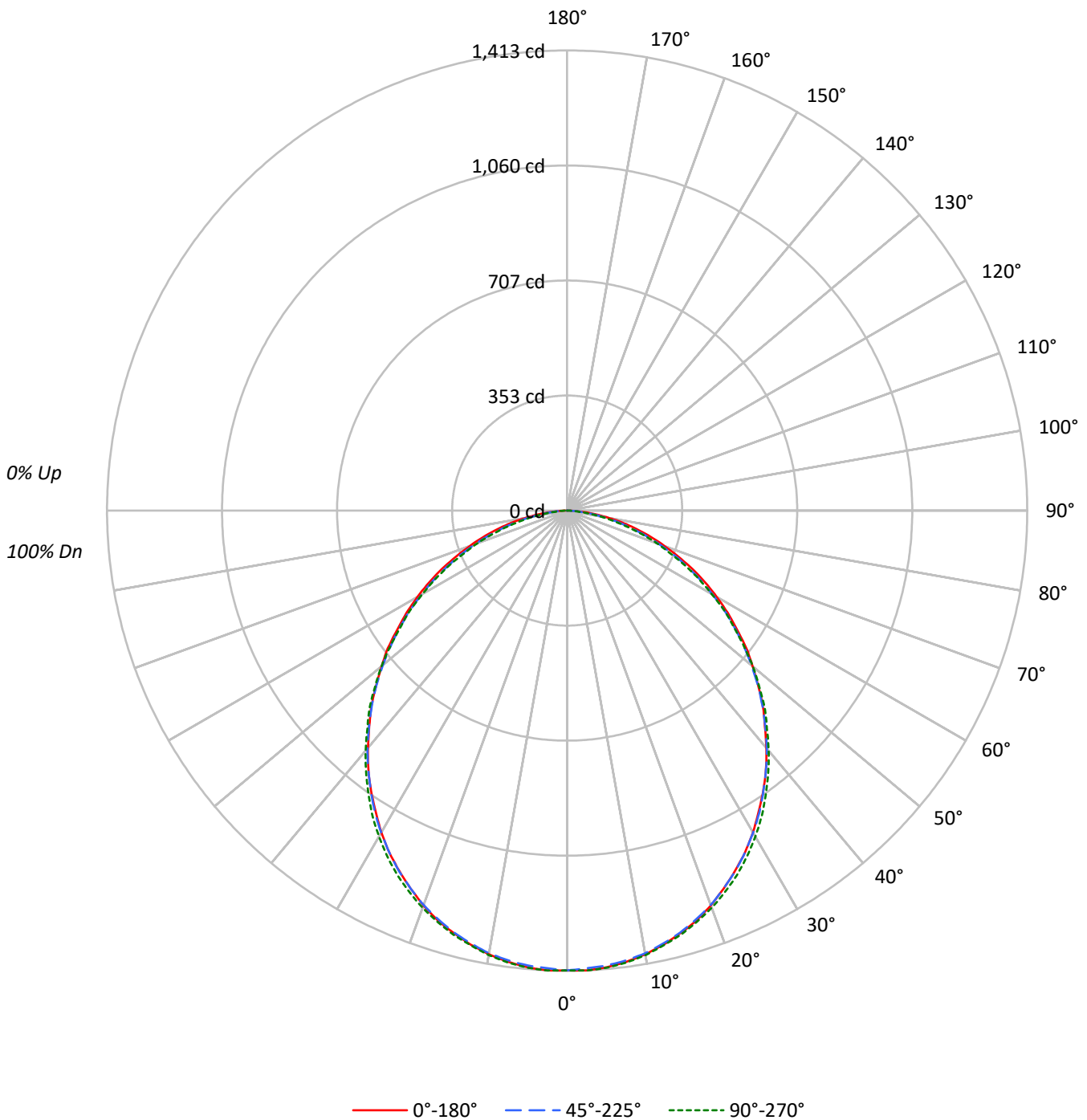
Lumens per Lamp: N/A
Luminaire Lumens: 3623.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): 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	89	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2163	2163	2163
5°	2164	2155	2166
10°	2152	2147	2155
15°	2131	2127	2138
20°	2103	2101	2116
25°	2063	2065	2086
30°	2018	2020	2044
35°	1963	1965	1988
40°	1903	1907	1926
45°	1842	1837	1859
50°	1771	1760	1773
55°	1698	1677	1671
60°	1627	1578	1571
65°	1537	1470	1450
70°	1424	1337	1312
75°	1308	1181	1120
80°	1146	985	894
85°	942	682	541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.7
10°-20°	379.0	10.5
20°-30°	564.0	15.6
30°-40°	658.9	18.2
40°-50°	655.0	18.1
50°-60°	562.8	15.5
60°-70°	404.2	11.2
70°-80°	215.3	5.9
80°-90°	50.4	1.4
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°	1076.4	29.7
0°-40°	1735.3	47.9
0°-60°	2953.2	81.5
0°-90°	3623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1408	1405	1402	1406	1409	134
15°	1344	1344	1342	1346	1348	379
25°	1221	1221	1222	1231	1234	562
35°	1050	1047	1051	1062	1063	656
45°	850	843	848	852	858	655
55°	636	628	628	628	626	571
65°	424	411	406	401	400	419
75°	221	209	200	194	189	235
85°	54	46	39	32	31	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1413.3	1411.0	1406.4	1412.1	1413.3
5°	1407.6	1405.3	1401.9	1406.4	1408.7
7.5°	1397.3	1395.0	1392.8	1397.3	1399.6
10°	1383.6	1382.5	1380.2	1385.9	1385.9
12.5°	1365.4	1364.3	1362.0	1367.7	1367.7
15°	1343.7	1343.7	1341.5	1346.0	1348.3
17.5°	1319.8	1318.7	1316.4	1322.1	1324.4
20°	1290.2	1290.2	1289.0	1295.9	1298.2
22.5°	1256.0	1256.0	1256.0	1265.1	1267.4
25°	1220.7	1220.7	1221.8	1230.9	1234.3
27.5°	1183.0	1181.9	1183.0	1193.3	1196.7
30°	1140.9	1138.6	1142.0	1152.3	1155.7
32.5°	1095.3	1093.0	1098.7	1107.8	1112.4
35°	1049.7	1047.4	1050.8	1062.2	1063.4
37.5°	1003.0	997.3	1003.0	1013.2	1014.4
40°	951.7	947.1	954.0	958.5	963.1
42.5°	899.2	897.0	900.4	908.4	908.4
45°	850.2	843.4	848.0	852.5	858.2
47.5°	795.5	792.1	794.4	797.8	800.1
50°	743.1	737.4	738.5	742.0	744.2
52.5°	694.1	682.7	682.7	685.0	685.0
55°	636.0	628.0	628.0	628.0	625.7
57.5°	584.7	574.4	573.3	573.3	573.3
60°	531.1	518.6	515.2	515.2	512.9
62.5°	477.5	466.2	461.6	457.0	457.0
65°	424.0	411.4	405.7	401.2	400.0
67.5°	369.3	360.2	353.3	347.6	341.9
70°	318.0	307.7	298.6	292.9	292.9
72.5°	270.1	258.7	249.6	242.8	239.3
75°	221.1	208.6	199.5	193.8	189.2
77.5°	177.8	164.1	155.0	147.0	142.5
80°	129.9	119.7	111.7	103.7	101.4
82.5°	90.0	82.1	72.9	67.2	65.0
85°	53.6	45.6	38.8	31.9	30.8
87.5°	21.7	16.0	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)