

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: P229871

Luminaire Tested: **24RLN-LD5-55-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-55-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4553.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

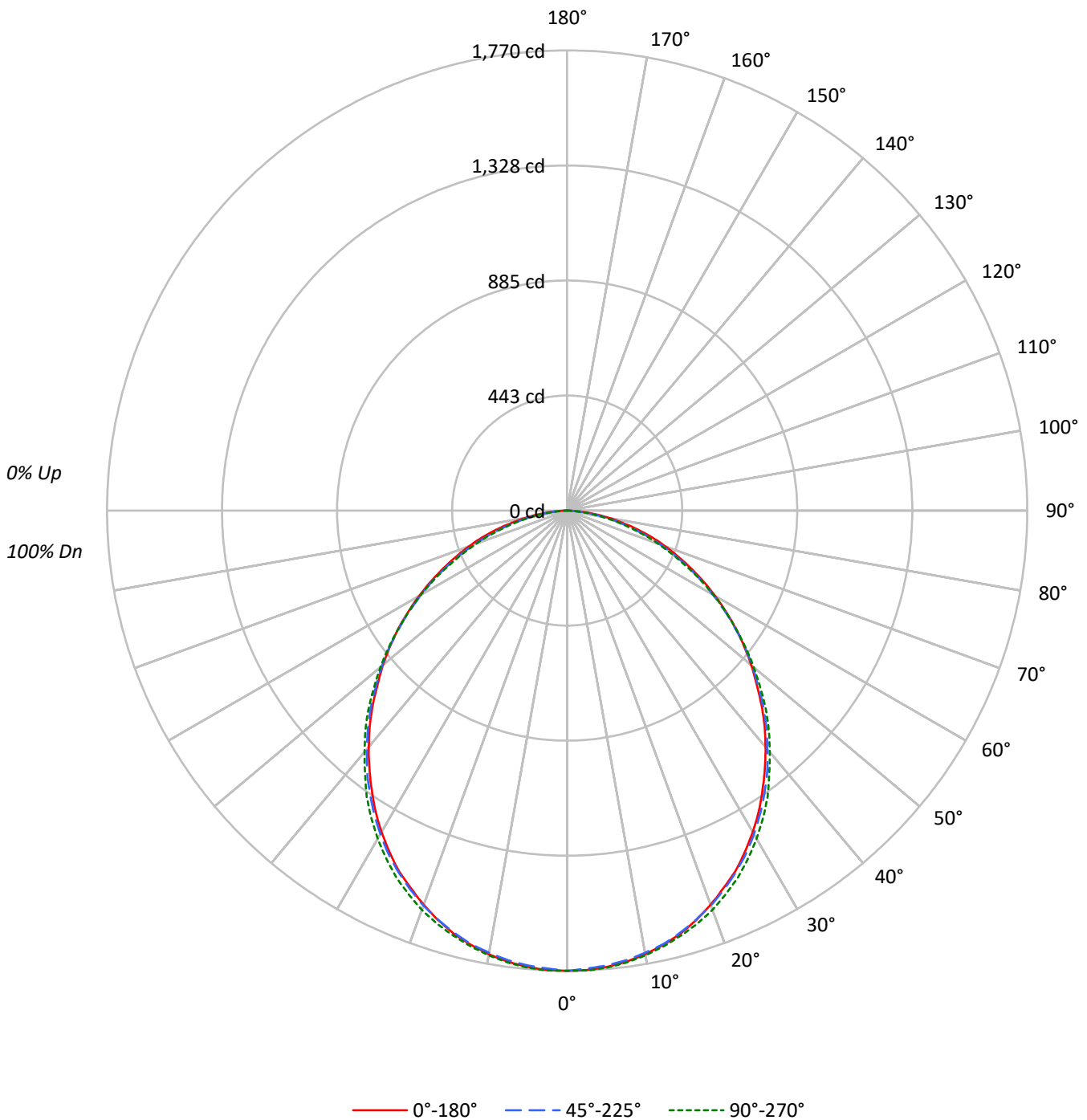
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	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	31
9	58	44	36	31	56	44	36	31	43	35	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°	2712	2712	2712
5°	2708	2700	2713
10°	2695	2686	2701
15°	2672	2665	2683
20°	2630	2635	2663
25°	2588	2595	2629
30°	2526	2541	2577
35°	2451	2475	2513
40°	2374	2395	2424
45°	2290	2311	2343
50°	2204	2215	2232
55°	2118	2106	2114
60°	2016	1985	1994
65°	1902	1860	1829
70°	1798	1701	1662
75°	1656	1510	1459
80°	1458	1279	1202
85°	1146	891	663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.7
10°-20°	475.1	10.4
20°-30°	708.1	15.6
30°-40°	827.8	18.2
40°-50°	822.1	18.1
50°-60°	705.9	15.5
60°-70°	508.5	11.2
70°-80°	273.8	6.0
80°-90°	64.5	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°	1350.3	29.7
0°-40°	2178.1	47.8
0°-60°	3706.1	81.4
0°-90°	4553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1762	1760	1756	1762	1764	167
15°	1685	1680	1680	1691	1692	475
25°	1531	1525	1535	1551	1556	704
35°	1311	1309	1324	1338	1344	820
45°	1057	1054	1067	1076	1082	815
55°	793	786	789	793	792	708
65°	525	516	513	509	505	521
75°	280	262	255	248	246	296
85°	65	59	51	41	38	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.3	1770.3	1770.3	1770.3	1770.3
2.5°	1768.8	1767.4	1763.0	1768.8	1770.3
5°	1761.6	1760.1	1755.8	1761.6	1764.5
7.5°	1750.0	1747.1	1744.2	1750.0	1752.9
10°	1732.6	1729.7	1726.8	1734.0	1736.9
12.5°	1710.8	1708.0	1708.0	1713.7	1716.6
15°	1684.8	1680.4	1680.4	1690.6	1692.0
17.5°	1651.4	1648.5	1650.0	1661.6	1665.9
20°	1613.7	1612.3	1616.6	1629.7	1634.0
22.5°	1571.7	1570.2	1577.5	1593.4	1596.3
25°	1531.1	1525.3	1535.4	1551.4	1555.7
27.5°	1480.3	1476.0	1489.0	1503.5	1507.9
30°	1428.1	1423.8	1436.8	1452.8	1457.1
32.5°	1371.6	1368.7	1381.7	1397.7	1402.0
35°	1310.7	1309.2	1323.7	1338.2	1344.0
37.5°	1249.8	1248.3	1264.3	1275.9	1277.3
40°	1187.4	1184.5	1197.6	1210.6	1212.1
42.5°	1123.7	1119.3	1133.8	1143.9	1148.3
45°	1057.0	1054.1	1067.1	1075.8	1081.6
47.5°	988.8	988.8	996.1	1006.2	1007.7
50°	925.0	920.7	929.4	935.2	936.6
52.5°	858.3	854.0	861.2	862.7	865.6
55°	793.1	785.8	788.7	793.1	791.6
57.5°	724.9	713.3	719.1	719.1	722.0
60°	658.2	648.1	648.1	648.1	651.0
62.5°	591.5	581.4	581.4	579.9	578.5
65°	524.9	516.2	513.3	508.9	504.6
67.5°	461.1	450.9	445.1	439.3	435.0
70°	401.6	384.2	379.9	371.2	371.2
72.5°	342.2	324.8	316.1	310.3	308.8
75°	279.8	262.4	255.2	247.9	246.5
77.5°	218.9	207.3	195.7	189.9	187.0
80°	165.3	155.1	145.0	134.8	136.3
82.5°	113.1	102.9	95.7	87.0	84.1
85°	65.2	59.4	50.7	40.6	37.7
87.5°	27.5	20.3	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)