

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: P229673

Luminaire Tested: **22RLN-LD5-44-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3662.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

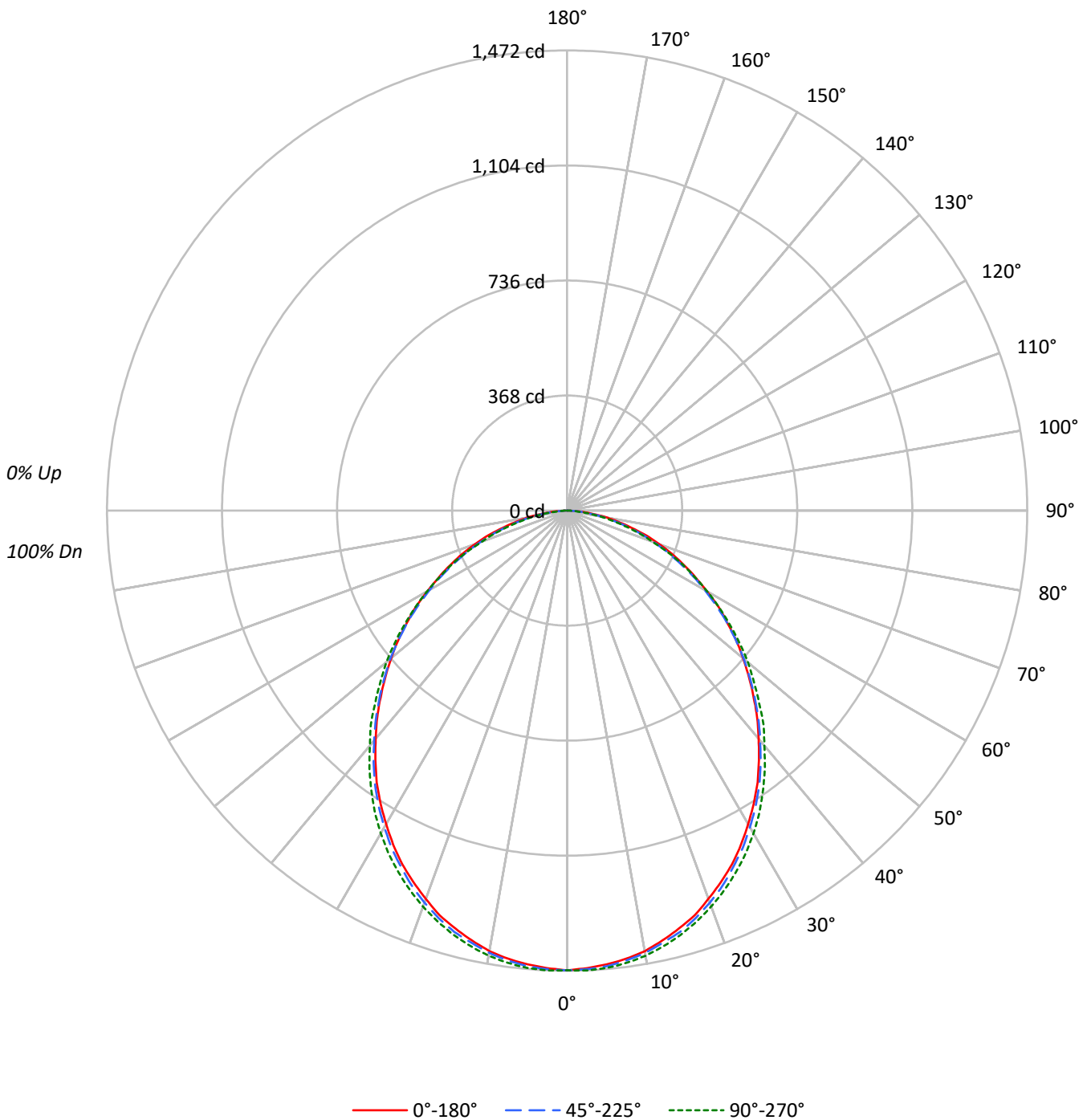
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4709	4709	4709
5°	4685	4703	4721
10°	4653	4672	4702
15°	4588	4626	4657
20°	4505	4550	4595
25°	4411	4444	4511
30°	4282	4324	4407
35°	4152	4188	4269
40°	3983	4014	4101
45°	3820	3846	3931
50°	3659	3677	3762
55°	3490	3480	3543
60°	3304	3256	3317
65°	3124	3011	3082
70°	2926	2768	2715
75°	2655	2446	2354
80°	2396	2084	1944
85°	1867	1451	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.8
10°-20°	392.9	10.7
20°-30°	580.1	15.8
30°-40°	670.8	18.3
40°-50°	658.0	18.0
50°-60°	559.6	15.3
60°-70°	398.6	10.9
70°-80°	212.6	5.8
80°-90°	50.5	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°	1111.8	30.4
0°-40°	1782.6	48.7
0°-60°	3000.2	81.9
0°-90°	3662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1457	1459	1463	1467	1469	138
15°	1384	1386	1395	1403	1405	390
25°	1248	1250	1258	1271	1277	574
35°	1062	1058	1071	1088	1092	663
45°	844	842	849	864	868	651
55°	625	619	623	631	634	560
65°	412	399	397	399	407	409
75°	215	203	198	194	190	230
85°	51	45	40	34	34	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.5	1470.5	1470.5	1470.5	1470.5
2.5°	1464.8	1466.7	1468.6	1472.4	1472.4
5°	1457.3	1459.2	1463.0	1466.7	1468.6
7.5°	1446.0	1446.0	1451.7	1455.4	1459.2
10°	1430.9	1432.8	1436.6	1442.2	1446.0
12.5°	1408.4	1412.1	1415.9	1423.4	1427.2
15°	1383.9	1385.8	1395.2	1402.7	1404.6
17.5°	1357.5	1357.5	1366.9	1374.5	1378.2
20°	1321.7	1325.5	1334.9	1344.3	1348.1
22.5°	1286.0	1289.7	1299.1	1308.6	1314.2
25°	1248.3	1250.2	1257.7	1270.9	1276.6
27.5°	1205.0	1208.8	1216.3	1229.5	1237.0
30°	1157.9	1161.7	1169.2	1184.3	1191.8
32.5°	1110.9	1114.6	1122.2	1137.2	1144.8
35°	1061.9	1058.1	1071.3	1088.3	1092.0
37.5°	1007.3	1009.2	1016.7	1031.8	1039.3
40°	952.7	952.7	960.2	977.2	981.0
42.5°	900.0	898.1	905.6	920.7	930.1
45°	843.5	841.6	849.2	864.2	868.0
47.5°	788.9	785.1	792.7	805.8	809.6
50°	734.3	730.5	738.1	749.4	755.0
52.5°	681.6	674.1	679.7	689.1	694.8
55°	625.1	619.4	623.2	630.7	634.5
57.5°	574.3	563.0	564.8	572.4	576.1
60°	515.9	506.5	508.4	515.9	517.8
62.5°	463.2	453.8	453.8	455.6	459.4
65°	412.3	399.2	397.3	399.2	406.7
67.5°	363.4	350.2	346.4	346.4	348.3
70°	312.5	299.4	295.6	293.7	290.0
72.5°	265.5	248.5	246.6	241.0	242.9
75°	214.6	203.3	197.7	193.9	190.2
77.5°	169.5	160.0	152.5	146.9	146.9
80°	129.9	116.7	113.0	105.4	105.4
82.5°	86.6	81.0	73.4	67.8	65.9
85°	50.8	45.2	39.5	33.9	33.9
87.5°	18.8	15.1	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)