

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: P229667

Luminaire Tested: **22RLN-LD5-44-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229667
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-L930-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3530.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

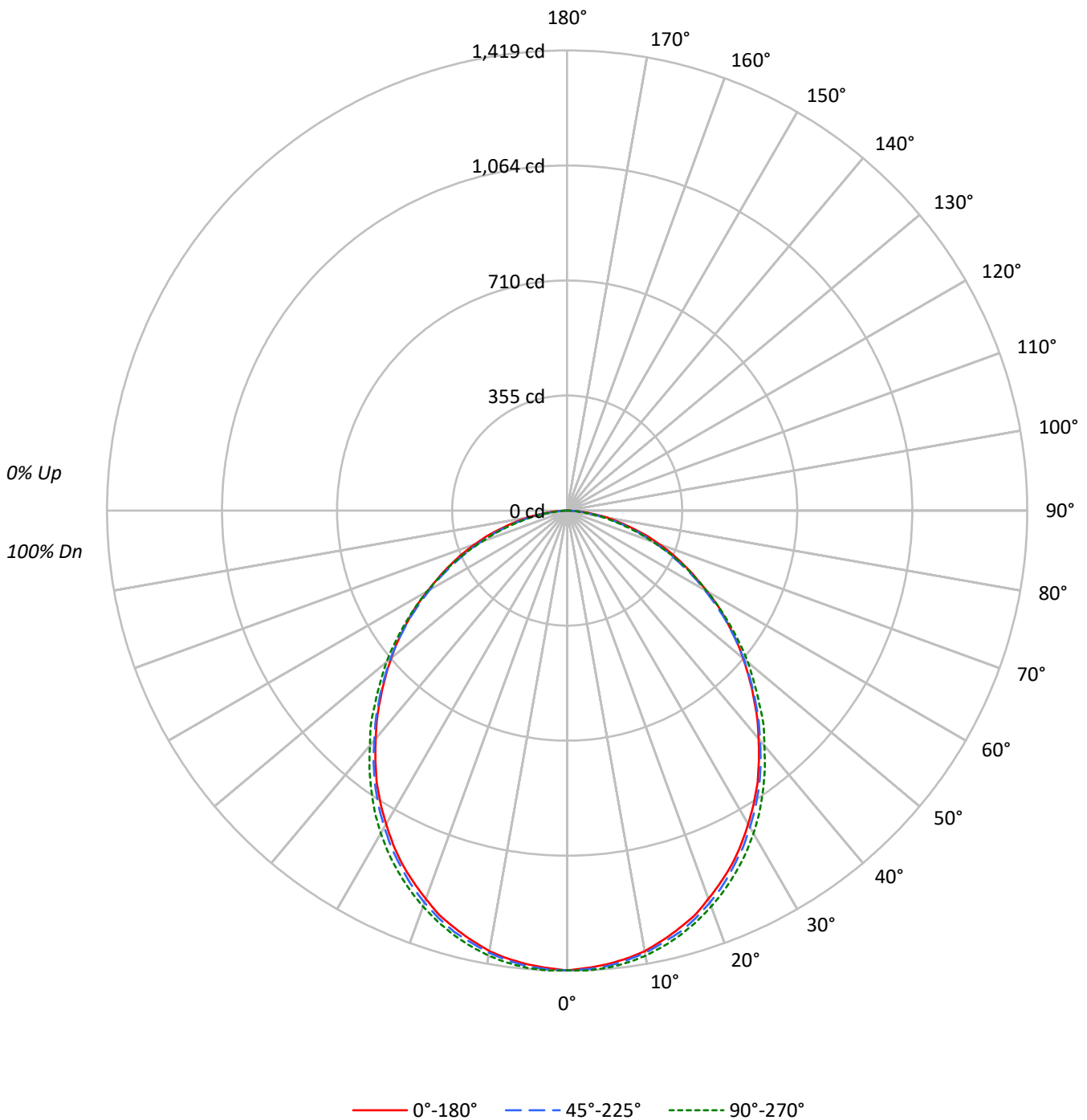
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4540	4540	4540
5°	4516	4534	4551
10°	4486	4503	4533
15°	4423	4459	4489
20°	4342	4386	4429
25°	4252	4284	4348
30°	4128	4168	4249
35°	4002	4038	4116
40°	3840	3870	3953
45°	3683	3707	3790
50°	3527	3545	3626
55°	3365	3355	3415
60°	3185	3139	3197
65°	3012	2902	2971
70°	2821	2668	2617
75°	2560	2358	2268
80°	2309	2008	1874
85°	1801	1400	1202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	3.8
10°-20°	378.7	10.7
20°-30°	559.2	15.8
30°-40°	646.7	18.3
40°-50°	634.3	18.0
50°-60°	539.4	15.3
60°-70°	384.3	10.9
70°-80°	205.0	5.8
80°-90°	48.7	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°	1071.7	30.4
0°-40°	1718.4	48.7
0°-60°	2892.1	81.9
0°-90°	3530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1405	1407	1410	1414	1416	133
15°	1334	1336	1345	1352	1354	376
25°	1203	1205	1212	1225	1230	553
35°	1024	1020	1033	1049	1053	639
45°	813	811	818	833	837	628
55°	603	597	601	608	612	540
65°	398	385	383	385	392	394
75°	207	196	191	187	183	221
85°	49	44	38	33	33	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.5	1417.5	1417.5	1417.5	1417.5
2.5°	1412.0	1413.9	1415.7	1419.3	1419.3
5°	1404.8	1406.6	1410.2	1413.9	1415.7
7.5°	1393.9	1393.9	1399.3	1403.0	1406.6
10°	1379.4	1381.2	1384.8	1390.3	1393.9
12.5°	1357.6	1361.2	1364.8	1372.1	1375.7
15°	1334.0	1335.8	1344.9	1352.1	1354.0
17.5°	1308.6	1308.6	1317.7	1324.9	1328.5
20°	1274.1	1277.7	1286.8	1295.9	1299.5
22.5°	1239.6	1243.2	1252.3	1261.4	1266.8
25°	1203.3	1205.1	1212.4	1225.1	1230.5
27.5°	1161.6	1165.2	1172.5	1185.2	1192.4
30°	1116.2	1119.8	1127.1	1141.6	1148.9
32.5°	1070.8	1074.5	1081.7	1096.2	1103.5
35°	1023.6	1020.0	1032.7	1049.0	1052.7
37.5°	971.0	972.8	980.1	994.6	1001.9
40°	918.4	918.4	925.6	942.0	945.6
42.5°	867.5	865.7	873.0	887.5	896.6
45°	813.1	811.3	818.5	833.1	836.7
47.5°	760.5	756.8	764.1	776.8	780.4
50°	707.8	704.2	711.5	722.4	727.8
52.5°	657.0	649.8	655.2	664.3	669.7
55°	602.6	597.1	600.8	608.0	611.6
57.5°	553.6	542.7	544.5	551.7	555.4
60°	497.3	488.2	490.0	497.3	499.1
62.5°	446.5	437.4	437.4	439.2	442.8
65°	397.5	384.8	383.0	384.8	392.0
67.5°	350.3	337.6	334.0	334.0	335.8
70°	301.3	288.6	284.9	283.1	279.5
72.5°	255.9	239.6	237.8	232.3	234.1
75°	206.9	196.0	190.6	186.9	183.3
77.5°	163.3	154.3	147.0	141.6	141.6
80°	125.2	112.5	108.9	101.6	101.6
82.5°	83.5	78.0	70.8	65.3	63.5
85°	49.0	43.6	38.1	32.7	32.7
87.5°	18.1	14.5	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)