

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: P229684

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

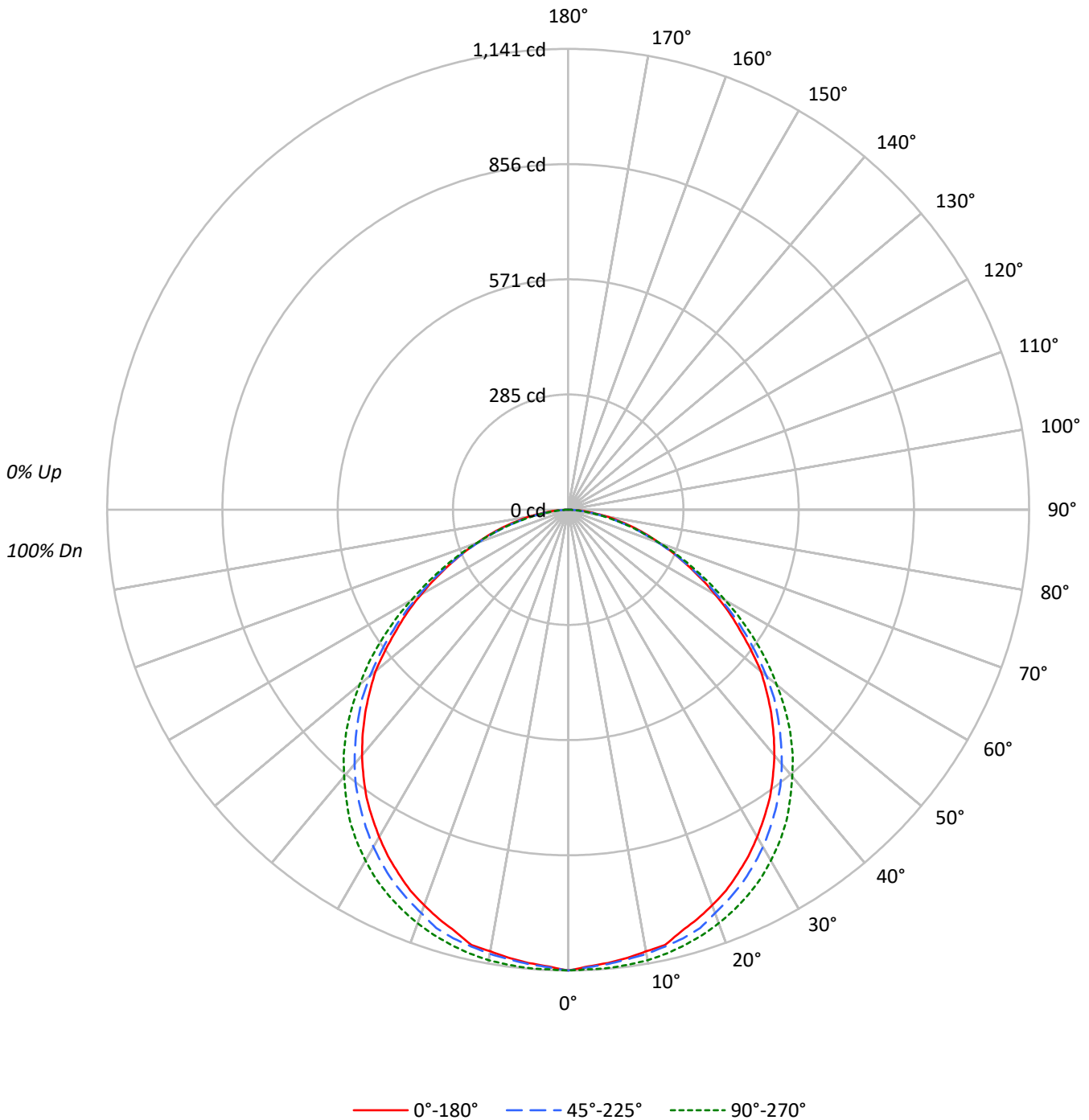
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3654	3654	3654
5°	3622	3630	3662
10°	3611	3631	3684
15°	3583	3643	3699
20°	3552	3622	3714
25°	3512	3604	3721
30°	3460	3566	3711
35°	3401	3510	3682
40°	3319	3439	3607
45°	3217	3331	3518
50°	3101	3191	3356
55°	2895	2989	3155
60°	2694	2746	2878
65°	2467	2488	2589
70°	2234	2200	2259
75°	2042	1898	1920
80°	1820	1555	1505
85°	1451	1055	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.5
10°-20°	309.8	10.2
20°-30°	470.8	15.5
30°-40°	563.5	18.6
40°-50°	569.0	18.8
50°-60°	480.1	15.8
60°-70°	327.7	10.8
70°-80°	166.3	5.5
80°-90°	38.3	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°	888.2	29.3
0°-40°	1451.6	47.9
0°-60°	2500.7	82.4
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1126	1126	1129	1135	1139	107
15°	1081	1085	1099	1107	1116	305
25°	994	1003	1020	1041	1053	458
35°	870	877	898	926	942	543
45°	710	714	736	764	777	547
55°	518	518	535	555	565	465
65°	326	321	328	334	342	324
75°	165	155	153	152	155	175
85°	40	34	29	26	25	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1131.9	1131.9	1133.7	1140.0	1139.1
5°	1126.5	1126.5	1129.2	1134.6	1139.1
7.5°	1119.3	1120.2	1122.9	1131.0	1136.4
10°	1110.4	1111.3	1116.6	1124.7	1132.8
12.5°	1104.1	1105.0	1107.7	1117.5	1125.6
15°	1080.8	1085.2	1098.7	1106.8	1115.7
17.5°	1062.8	1068.2	1086.1	1093.3	1104.1
20°	1042.2	1048.5	1062.8	1079.0	1089.7
22.5°	1020.7	1027.8	1042.2	1061.0	1072.7
25°	993.8	1002.7	1019.8	1041.3	1053.0
27.5°	966.9	975.8	992.9	1022.5	1030.5
30°	935.5	945.3	964.2	992.9	1003.6
32.5°	903.2	912.1	931.9	961.5	974.0
35°	870.0	877.2	897.8	925.6	941.7
37.5°	832.3	839.5	862.8	889.7	902.3
40°	793.8	799.1	822.5	849.4	862.8
42.5°	752.5	757.9	779.4	807.2	822.5
45°	710.3	713.9	735.5	764.2	776.7
47.5°	665.5	669.1	691.5	714.8	726.5
50°	622.4	620.7	640.4	661.9	673.6
52.5°	569.5	570.4	587.5	608.1	621.5
55°	518.4	517.5	535.4	555.2	565.0
57.5°	470.9	467.3	482.5	496.0	507.6
60°	420.6	417.1	428.7	443.1	449.3
62.5°	372.2	367.7	379.4	387.5	393.7
65°	325.6	321.1	328.3	334.5	341.7
67.5°	281.6	276.2	282.5	286.1	291.5
70°	238.6	234.1	235.0	239.5	241.3
72.5°	201.8	192.8	193.7	193.7	196.4
75°	165.0	155.2	153.4	152.5	155.2
77.5°	128.3	120.2	117.5	116.6	116.6
80°	98.7	87.9	84.3	81.6	81.6
82.5°	64.6	61.0	54.7	51.1	49.3
85°	39.5	34.1	28.7	26.0	25.1
87.5°	15.2	12.6	10.8	10.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)