

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: P229603

Luminaire Tested: **22RLN-LD5-25-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

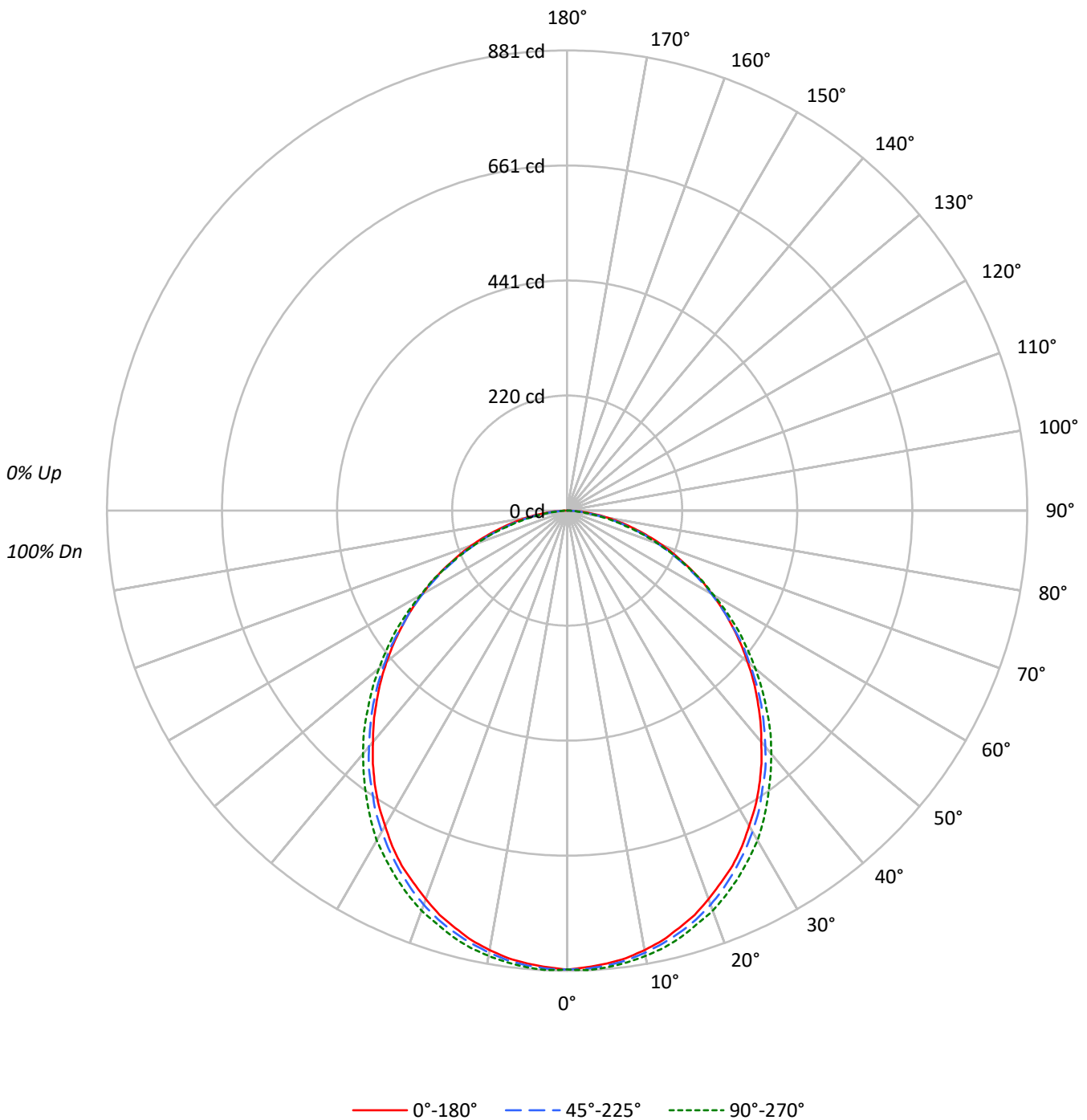
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	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	61
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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	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	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2814	2814	2814
5°	2799	2811	2822
10°	2779	2795	2816
15°	2743	2771	2802
20°	2698	2737	2778
25°	2649	2685	2740
30°	2578	2625	2696
35°	2508	2547	2619
40°	2417	2467	2542
45°	2335	2380	2448
50°	2249	2274	2345
55°	2155	2159	2234
60°	2052	2043	2075
65°	1942	1899	1926
70°	1820	1727	1733
75°	1647	1516	1471
80°	1457	1274	1182
85°	1176	889	757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.7
10°-20°	235.7	10.5
20°-30°	350.4	15.6
30°-40°	409.0	18.2
40°-50°	406.0	18.1
50°-60°	348.4	15.5
60°-70°	250.1	11.1
70°-80°	132.5	5.9
80°-90°	31.0	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°	669.1	29.8
0°-40°	1078.1	48.0
0°-60°	1832.4	81.6
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	871	872	874	877	878	83
15°	827	830	836	842	845	233
25°	750	752	760	771	775	345
35°	642	644	652	666	670	401
45°	516	518	525	535	540	398
55°	386	384	387	395	400	345
65°	256	250	251	253	254	254
75°	133	127	122	121	119	142
85°	32	28	24	21	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.6	878.6	878.6	878.6	878.6
2.5°	875.0	875.7	877.9	880.0	880.7
5°	870.7	872.2	874.3	877.2	877.9
7.5°	864.3	865.8	868.6	871.5	872.9
10°	854.4	856.5	859.4	864.3	865.8
12.5°	843.0	844.4	848.7	854.4	857.2
15°	827.3	830.2	835.9	842.3	845.1
17.5°	811.6	813.8	820.9	827.3	829.4
20°	791.7	796.0	803.1	810.9	815.2
22.5°	770.4	773.9	782.5	791.7	796.0
25°	749.7	751.8	759.7	771.1	775.3
27.5°	724.8	726.9	735.5	746.9	752.6
30°	697.0	700.6	709.8	722.7	729.1
32.5°	670.7	673.5	682.8	694.2	700.6
35°	641.5	643.6	651.5	665.7	670.0
37.5°	610.9	613.0	623.7	634.4	639.4
40°	578.1	581.0	590.2	600.9	608.0
42.5°	548.2	549.6	557.5	569.6	576.0
45°	515.5	517.6	525.4	534.7	540.4
47.5°	484.1	483.4	491.3	501.9	506.2
50°	451.4	450.0	456.4	467.1	470.6
52.5°	418.6	416.5	423.6	431.5	434.3
55°	385.9	383.8	386.6	395.1	400.1
57.5°	353.9	350.3	353.9	358.1	362.4
60°	320.4	314.7	319.0	323.9	323.9
62.5°	289.8	283.4	285.5	289.1	291.2
65°	256.3	249.9	250.6	252.8	254.2
67.5°	225.0	218.6	217.2	217.9	218.6
70°	194.4	187.2	184.4	183.0	185.1
72.5°	163.0	155.9	154.5	151.7	152.4
75°	133.1	126.7	122.5	121.0	118.9
77.5°	104.7	99.0	95.4	91.1	90.4
80°	79.0	71.9	69.1	66.2	64.1
82.5°	55.5	49.1	44.1	41.3	39.2
85°	32.0	27.8	24.2	20.6	20.6
87.5°	12.8	10.0	8.5	7.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)