

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: P229669

Luminaire Tested: **22RLN-LD5-25-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229669
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-LD5-25-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: 2109.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

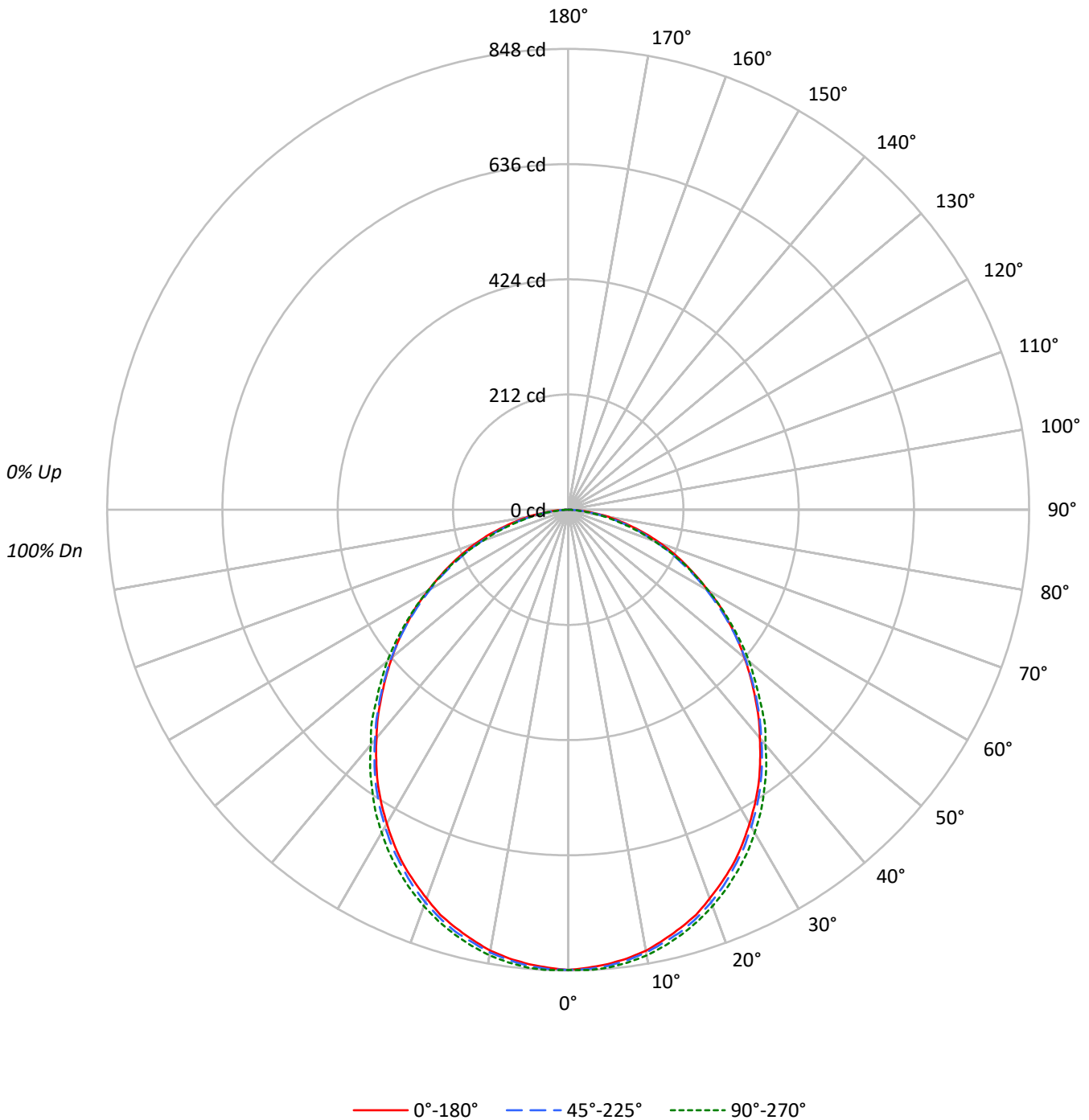
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	59	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°	2712	2712	2712
5°	2698	2709	2719
10°	2680	2691	2708
15°	2643	2664	2682
20°	2594	2620	2646
25°	2540	2559	2598
30°	2466	2490	2538
35°	2391	2412	2459
40°	2294	2312	2362
45°	2200	2215	2264
50°	2107	2118	2166
55°	2010	2004	2040
60°	1903	1875	1910
65°	1800	1734	1775
70°	1685	1594	1564
75°	1529	1409	1355
80°	1380	1201	1119
85°	1077	838	717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.8
10°-20°	226.3	10.7
20°-30°	334.1	15.8
30°-40°	386.3	18.3
40°-50°	378.9	18.0
50°-60°	322.3	15.3
60°-70°	229.6	10.9
70°-80°	122.5	5.8
80°-90°	29.1	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°	640.3	30.4
0°-40°	1026.7	48.7
0°-60°	1727.9	81.9
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	839	840	842	845	846	80
15°	797	798	804	808	809	225
25°	719	720	724	732	735	331
35°	612	609	617	627	629	382
45°	486	485	489	498	500	375
55°	360	357	359	363	365	323
65°	238	230	229	230	234	236
75°	124	117	114	112	110	132
85°	29	26	23	20	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.9	846.9	846.9	846.9	846.9
2.5°	843.6	844.7	845.8	848.0	848.0
5°	839.3	840.4	842.5	844.7	845.8
7.5°	832.8	832.8	836.0	838.2	840.4
10°	824.1	825.2	827.4	830.6	832.8
12.5°	811.1	813.3	815.4	819.8	821.9
15°	797.0	798.1	803.5	807.8	808.9
17.5°	781.8	781.8	787.2	791.6	793.7
20°	761.2	763.4	768.8	774.2	776.4
22.5°	740.6	742.8	748.2	753.6	756.9
25°	718.9	720.0	724.3	731.9	735.2
27.5°	694.0	696.2	700.5	708.1	712.4
30°	666.9	669.0	673.4	682.1	686.4
32.5°	639.8	641.9	646.3	654.9	659.3
35°	611.6	609.4	617.0	626.8	628.9
37.5°	580.1	581.2	585.5	594.2	598.6
40°	548.7	548.7	553.0	562.8	564.9
42.5°	518.3	517.2	521.6	530.2	535.7
45°	485.8	484.7	489.0	497.7	499.9
47.5°	454.3	452.2	456.5	464.1	466.3
50°	422.9	420.7	425.1	431.6	434.8
52.5°	392.5	388.2	391.4	396.9	400.1
55°	360.0	356.7	358.9	363.3	365.4
57.5°	330.7	324.2	325.3	329.6	331.8
60°	297.1	291.7	292.8	297.1	298.2
62.5°	266.7	261.3	261.3	262.4	264.6
65°	237.5	229.9	228.8	229.9	234.2
67.5°	209.3	201.7	199.5	199.5	200.6
70°	180.0	172.4	170.2	169.2	167.0
72.5°	152.9	143.1	142.0	138.8	139.9
75°	123.6	117.1	113.9	111.7	109.5
77.5°	97.6	92.2	87.8	84.6	84.6
80°	74.8	67.2	65.1	60.7	60.7
82.5°	49.9	46.6	42.3	39.0	38.0
85°	29.3	26.0	22.8	19.5	19.5
87.5°	10.8	8.7	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)