

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: P229597

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229597
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-L935-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

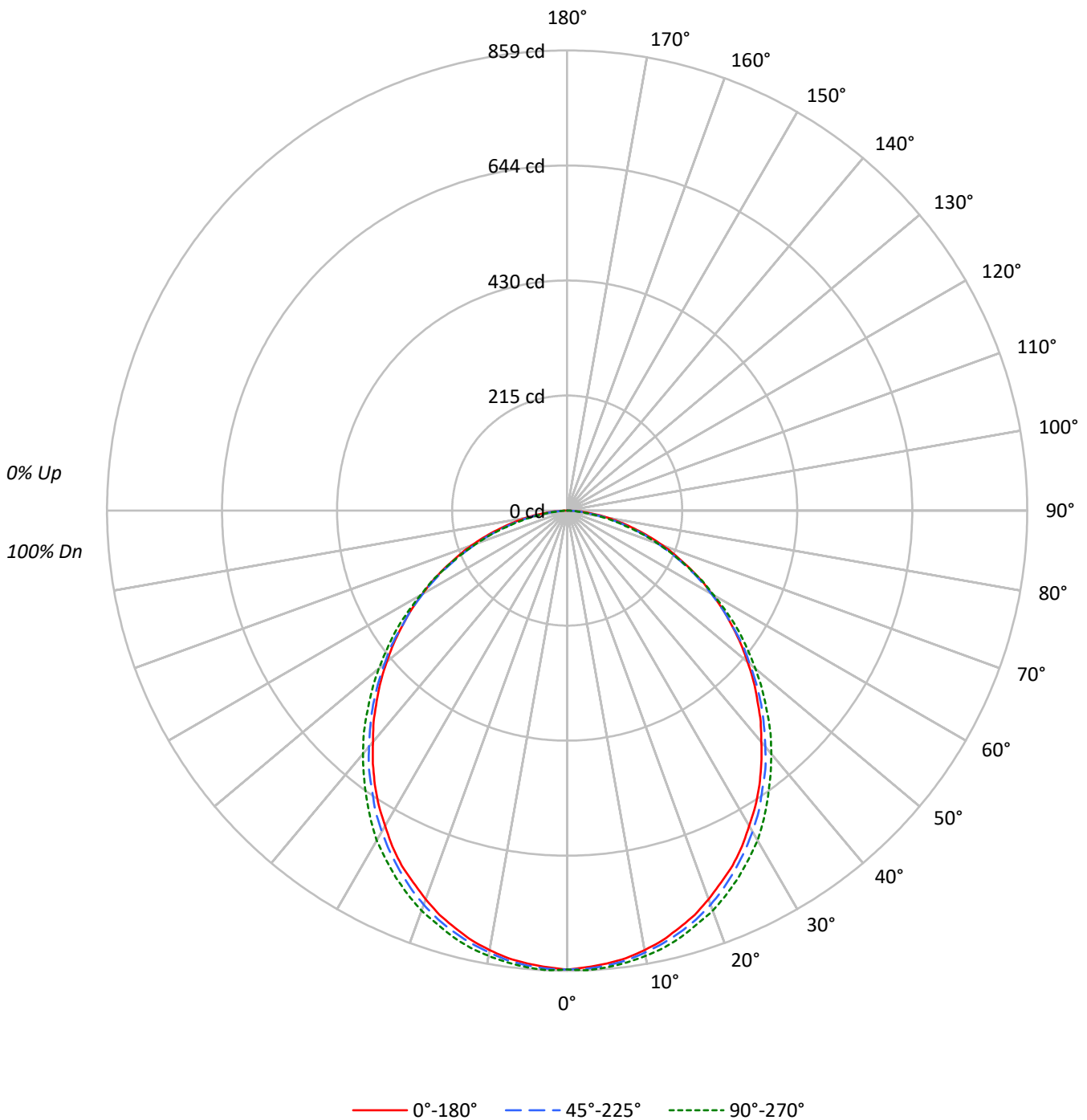
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2744	2744	2744
5°	2729	2741	2752
10°	2709	2725	2745
15°	2675	2702	2732
20°	2631	2669	2709
25°	2583	2617	2671
30°	2513	2559	2629
35°	2445	2483	2554
40°	2357	2406	2479
45°	2276	2320	2386
50°	2193	2217	2286
55°	2101	2105	2179
60°	2001	1992	2023
65°	1894	1852	1878
70°	1774	1684	1690
75°	1606	1477	1434
80°	1422	1241	1153
85°	1146	867	739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.7
10°-20°	229.8	10.5
20°-30°	341.6	15.6
30°-40°	398.8	18.2
40°-50°	395.8	18.1
50°-60°	339.7	15.5
60°-70°	243.8	11.1
70°-80°	129.2	5.9
80°-90°	30.3	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°	652.4	29.8
0°-40°	1051.2	48.0
0°-60°	1786.7	81.6
0°-90°	2190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	849	850	852	855	856	81
15°	807	810	815	821	824	227
25°	731	733	741	752	756	336
35°	626	628	635	649	653	391
45°	503	505	512	521	527	388
55°	376	374	377	385	390	337
65°	250	244	244	246	248	248
75°	130	124	119	118	116	138
85°	31	27	24	20	20	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.7	856.7	856.7	856.7	856.7
2.5°	853.2	853.9	856.0	858.1	858.8
5°	849.0	850.4	852.5	855.3	856.0
7.5°	842.8	844.2	846.9	849.7	851.1
10°	833.1	835.1	837.9	842.8	844.2
12.5°	822.0	823.3	827.5	833.1	835.8
15°	806.7	809.5	815.0	821.3	824.0
17.5°	791.4	793.5	800.4	806.7	808.8
20°	772.0	776.1	783.1	790.7	794.9
22.5°	751.1	754.6	762.9	772.0	776.1
25°	731.0	733.1	740.7	751.8	756.0
27.5°	706.7	708.8	717.1	728.2	733.8
30°	679.6	683.1	692.1	704.6	710.9
32.5°	654.0	656.7	665.8	676.9	683.1
35°	625.5	627.6	635.2	649.1	653.3
37.5°	595.6	597.7	608.1	618.6	623.4
40°	563.7	566.5	575.5	585.9	592.9
42.5°	534.6	535.9	543.6	555.4	561.6
45°	502.6	504.7	512.3	521.4	526.9
47.5°	472.1	471.4	479.0	489.4	493.6
50°	440.1	438.7	445.0	455.4	458.9
52.5°	408.2	406.1	413.1	420.7	423.5
55°	376.3	374.2	377.0	385.3	390.2
57.5°	345.0	341.6	345.0	349.2	353.4
60°	312.4	306.8	311.0	315.9	315.9
62.5°	282.5	276.3	278.4	281.9	283.9
65°	249.9	243.7	244.4	246.4	247.8
67.5°	219.4	213.1	211.7	212.4	213.1
70°	189.5	182.6	179.8	178.4	180.5
72.5°	159.0	152.0	150.6	147.9	148.6
75°	129.8	123.6	119.4	118.0	115.9
77.5°	102.1	96.5	93.0	88.9	88.2
80°	77.1	70.1	67.3	64.6	62.5
82.5°	54.1	47.9	43.0	40.3	38.2
85°	31.2	27.1	23.6	20.1	20.1
87.5°	12.5	9.7	8.3	7.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)