

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: P229604

Luminaire Tested: **22RLN-LD5-31-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229604
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-LD5-31-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: 2787.0 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

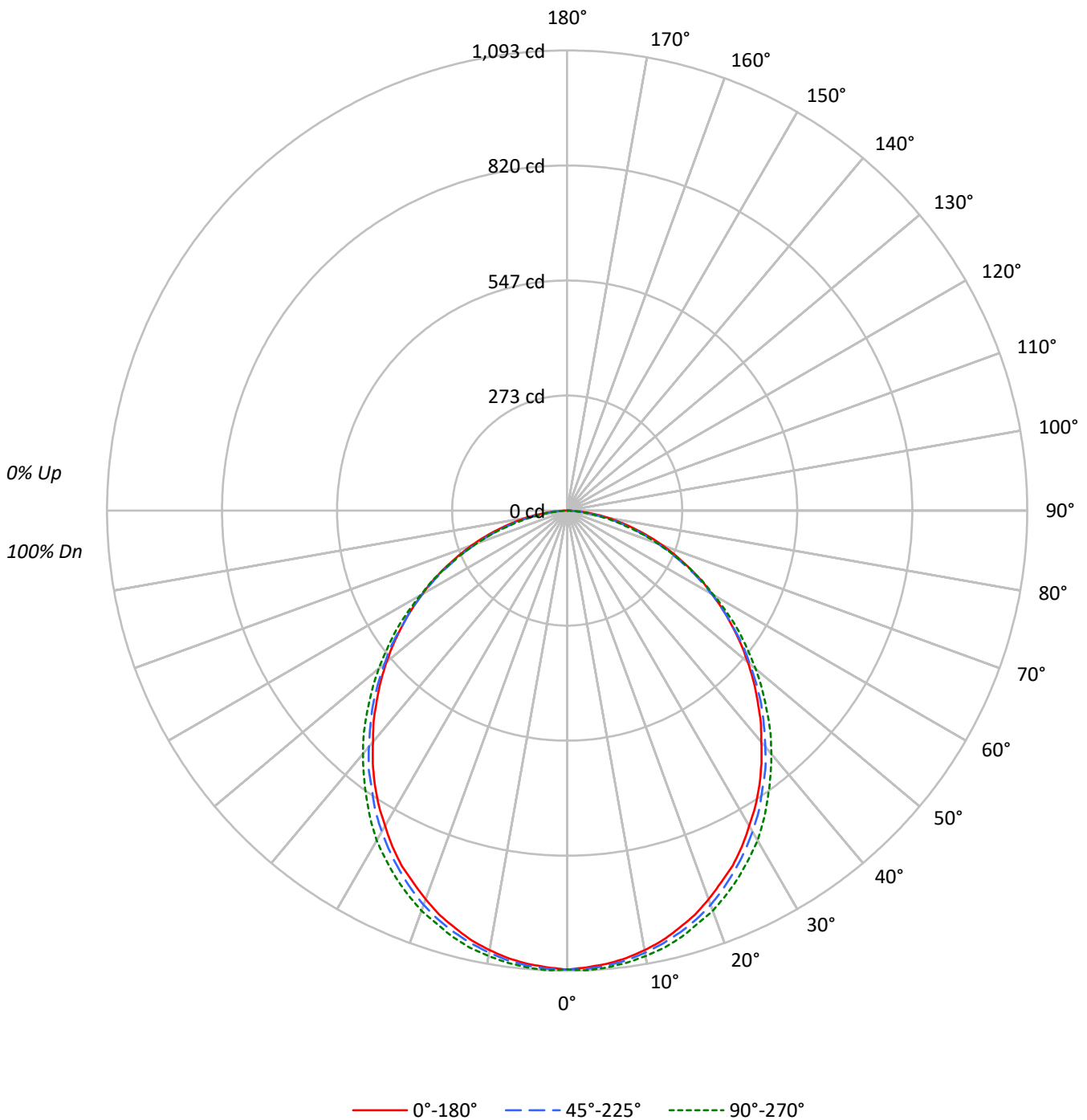
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3491	3491	3491
5°	3474	3488	3502
10°	3448	3468	3494
15°	3404	3439	3477
20°	3348	3397	3448
25°	3287	3331	3400
30°	3198	3257	3346
35°	3112	3161	3250
40°	2999	3062	3154
45°	2897	2953	3037
50°	2791	2822	2910
55°	2673	2678	2772
60°	2547	2535	2575
65°	2410	2357	2390
70°	2259	2142	2151
75°	2044	1881	1825
80°	1809	1581	1466
85°	1462	1102	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.7
10°-20°	292.5	10.5
20°-30°	434.8	15.6
30°-40°	507.5	18.2
40°-50°	503.7	18.1
50°-60°	432.3	15.5
60°-70°	310.3	11.1
70°-80°	164.4	5.9
80°-90°	38.5	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°	830.3	29.8
0°-40°	1337.8	48.0
0°-60°	2273.8	81.6
0°-90°	2787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1080	1082	1085	1088	1089	103
15°	1027	1030	1037	1045	1049	290
25°	930	933	943	957	962	428
35°	796	799	808	826	831	497
45°	640	642	652	664	671	494
55°	479	476	480	490	496	428
65°	318	310	311	314	315	316
75°	165	157	152	150	148	176
85°	40	34	30	26	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.2	1090.2	1090.2	1090.2	1090.2
2.5°	1085.8	1086.7	1089.3	1092.0	1092.8
5°	1080.5	1082.2	1084.9	1088.4	1089.3
7.5°	1072.5	1074.3	1077.8	1081.4	1083.1
10°	1060.2	1062.8	1066.3	1072.5	1074.3
12.5°	1046.0	1047.8	1053.1	1060.2	1063.7
15°	1026.6	1030.1	1037.2	1045.1	1048.7
17.5°	1007.2	1009.8	1018.6	1026.6	1029.2
20°	982.4	987.7	996.6	1006.3	1011.6
22.5°	955.9	960.3	970.9	982.4	987.7
25°	930.3	932.9	942.7	956.8	962.1
27.5°	899.4	902.0	912.6	926.8	933.8
30°	864.9	869.3	880.8	896.7	904.7
32.5°	832.2	835.8	847.2	861.4	869.3
35°	796.0	798.7	808.4	826.0	831.3
37.5°	758.0	760.7	773.9	787.2	793.4
40°	717.4	720.9	732.4	745.6	754.5
42.5°	680.3	682.0	691.8	706.8	714.7
45°	639.6	642.3	652.0	663.5	670.6
47.5°	600.8	599.9	609.6	622.8	628.1
50°	560.1	558.4	566.3	579.6	584.0
52.5°	519.5	516.8	525.7	535.4	538.9
55°	478.8	476.2	479.7	490.3	496.5
57.5°	439.1	434.7	439.1	444.4	449.7
60°	397.6	390.5	395.8	402.0	402.0
62.5°	359.6	351.6	354.3	358.7	361.3
65°	318.0	310.1	311.0	313.6	315.4
67.5°	279.2	271.2	269.5	270.3	271.2
70°	241.2	232.4	228.8	227.1	229.7
72.5°	202.3	193.5	191.7	188.2	189.1
75°	165.2	157.3	152.0	150.2	147.5
77.5°	129.9	122.8	118.4	113.1	112.2
80°	98.1	89.2	85.7	82.2	79.5
82.5°	68.9	61.0	54.8	51.2	48.6
85°	39.8	34.5	30.0	25.6	25.6
87.5°	15.9	12.4	10.6	9.7	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)