

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: P229694

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229694  
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-LD5-31-RDP-UNV-L840-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2465.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

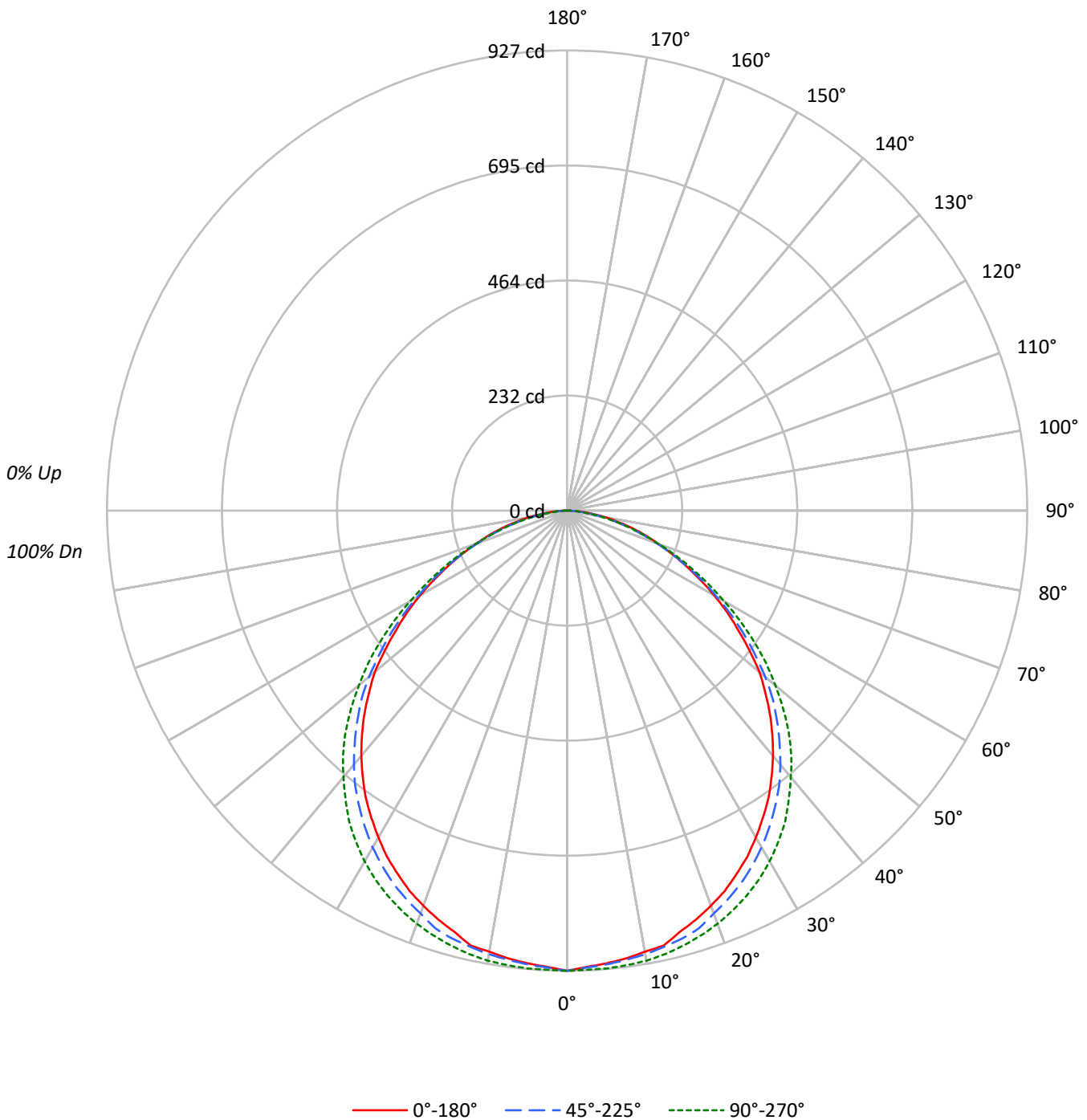
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2969	2969	2969
5°	2943	2950	2976
10°	2935	2951	2994
15°	2912	2960	3007
20°	2887	2944	3019
25°	2854	2929	3024
30°	2812	2898	3016
35°	2765	2853	2992
40°	2697	2794	2932
45°	2615	2707	2859
50°	2521	2593	2727
55°	2352	2430	2564
60°	2190	2232	2339
65°	2005	2022	2104
70°	1816	1788	1836
75°	1659	1542	1560
80°	1479	1263	1223
85°	1180	856	750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	3.5
10°-20°	251.8	10.2
20°-30°	382.6	15.5
30°-40°	457.9	18.6
40°-50°	462.5	18.8
50°-60°	390.2	15.8
60°-70°	266.4	10.8
70°-80°	135.1	5.5
80°-90°	31.1	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°	721.8	29.3
0°-40°	1179.8	47.9
0°-60°	2032.4	82.4
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	916	916	918	922	926	87
15°	878	882	893	900	907	248
25°	808	815	829	846	856	372
35°	707	713	730	752	765	442
45°	577	580	598	621	631	445
55°	421	421	435	451	459	378
65°	265	261	267	272	278	263
75°	134	126	125	124	126	142
85°	32	28	23	21	20	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	919.9	919.9	921.4	926.5	925.7
5°	915.5	915.5	917.7	922.1	925.7
7.5°	909.7	910.4	912.6	919.2	923.6
10°	902.4	903.1	907.5	914.1	920.6
12.5°	897.3	898.0	900.2	908.2	914.8
15°	878.4	882.0	892.9	899.5	906.8
17.5°	863.8	868.2	882.7	888.6	897.3
20°	847.0	852.1	863.8	876.9	885.7
22.5°	829.5	835.4	847.0	862.3	871.8
25°	807.7	814.9	828.8	846.3	855.8
27.5°	785.8	793.1	806.9	831.0	837.5
30°	760.3	768.3	783.6	806.9	815.7
32.5°	734.0	741.3	757.4	781.4	791.6
35°	707.1	712.9	729.7	752.3	765.4
37.5°	676.4	682.3	701.2	723.1	733.3
40°	645.1	649.5	668.4	690.3	701.2
42.5°	611.6	615.9	633.4	656.0	668.4
45°	577.3	580.2	597.7	621.0	631.3
47.5°	540.9	543.8	562.0	581.0	590.4
50°	505.9	504.4	520.5	538.0	547.4
52.5°	462.9	463.6	477.4	494.2	505.1
55°	421.3	420.6	435.2	451.2	459.2
57.5°	382.7	379.8	392.2	403.1	412.6
60°	341.9	339.0	348.4	360.1	365.2
62.5°	302.5	298.9	308.3	314.9	320.0
65°	264.6	261.0	266.8	271.9	277.7
67.5°	228.9	224.5	229.6	232.5	236.9
70°	193.9	190.3	191.0	194.6	196.1
72.5°	164.0	156.7	157.4	157.4	159.6
75°	134.1	126.1	124.6	123.9	126.1
77.5°	104.2	97.7	95.5	94.8	94.8
80°	80.2	71.4	68.5	66.3	66.3
82.5°	52.5	49.6	44.5	41.5	40.1
85°	32.1	27.7	23.3	21.1	20.4
87.5°	12.4	10.2	8.7	8.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)