

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: P229706

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229706  
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-L935-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2122.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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

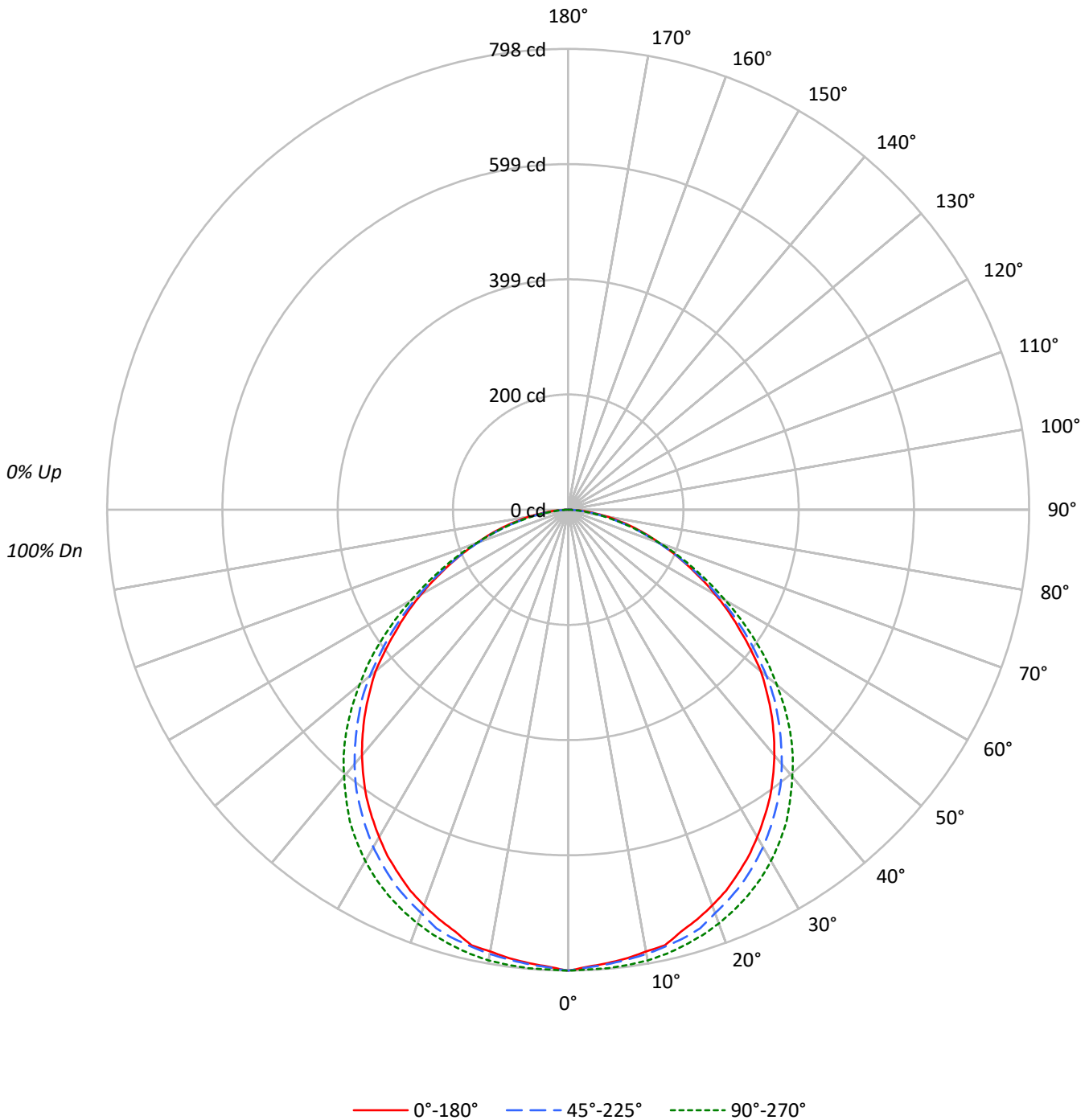
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2556	2556	2556
5°	2534	2540	2562
10°	2526	2540	2577
15°	2507	2549	2588
20°	2485	2534	2598
25°	2457	2521	2603
30°	2420	2495	2597
35°	2380	2456	2576
40°	2322	2406	2524
45°	2251	2331	2461
50°	2170	2232	2348
55°	2025	2092	2207
60°	1885	1921	2014
65°	1726	1741	1812
70°	1563	1539	1581
75°	1429	1328	1344
80°	1273	1088	1053
85°	1014	739	647



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	3.5
10°-20°	216.7	10.2
20°-30°	329.4	15.5
30°-40°	394.2	18.6
40°-50°	398.1	18.8
50°-60°	335.9	15.8
60°-70°	229.3	10.8
70°-80°	116.3	5.5
80°-90°	26.8	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°	621.4	29.3
0°-40°	1015.6	47.9
0°-60°	1749.6	82.4
0°-90°	2122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	788	788	790	794	797	75
15°	756	759	769	774	781	214
25°	695	702	714	728	737	320
35°	609	614	628	648	659	380
45°	497	500	515	535	543	383
55°	363	362	375	388	395	325
65°	228	225	230	234	239	226
75°	116	109	107	107	109	122
85°	28	24	20	18	18	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.2	798.2	798.2	798.2	798.2
2.5°	791.9	791.9	793.2	797.6	796.9
5°	788.1	788.1	790.0	793.8	796.9
7.5°	783.1	783.7	785.6	791.3	795.0
10°	776.8	777.5	781.2	786.9	792.5
12.5°	772.5	773.1	775.0	781.9	787.5
15°	756.1	759.3	768.7	774.3	780.6
17.5°	743.6	747.4	759.9	764.9	772.5
20°	729.2	733.5	743.6	754.9	762.4
22.5°	714.1	719.1	729.2	742.3	750.5
25°	695.3	701.5	713.5	728.5	736.7
27.5°	676.4	682.7	694.6	715.4	721.0
30°	654.5	661.4	674.6	694.6	702.2
32.5°	631.9	638.2	652.0	672.7	681.5
35°	608.7	613.7	628.1	647.6	658.9
37.5°	582.3	587.3	603.7	622.5	631.3
40°	555.3	559.1	575.4	594.2	603.7
42.5°	526.5	530.2	545.3	564.8	575.4
45°	497.0	499.5	514.6	534.6	543.4
47.5°	465.6	468.1	483.8	500.1	508.3
50°	435.5	434.2	448.0	463.1	471.3
52.5°	398.5	399.1	411.0	425.4	434.9
55°	362.7	362.1	374.6	388.4	395.3
57.5°	329.4	326.9	337.6	347.0	355.2
60°	294.3	291.8	299.9	310.0	314.4
62.5°	260.4	257.3	265.4	271.1	275.5
65°	227.8	224.6	229.7	234.1	239.1
67.5°	197.0	193.3	197.7	200.2	203.9
70°	166.9	163.8	164.4	167.5	168.8
72.5°	141.2	134.9	135.5	135.5	137.4
75°	115.5	108.6	107.3	106.7	108.6
77.5°	89.7	84.1	82.2	81.6	81.6
80°	69.0	61.5	59.0	57.1	57.1
82.5°	45.2	42.7	38.3	35.8	34.5
85°	27.6	23.8	20.1	18.2	17.6
87.5°	10.7	8.8	7.5	7.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)