

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: P229634

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-31-RDP-UNV-L935-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2203.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

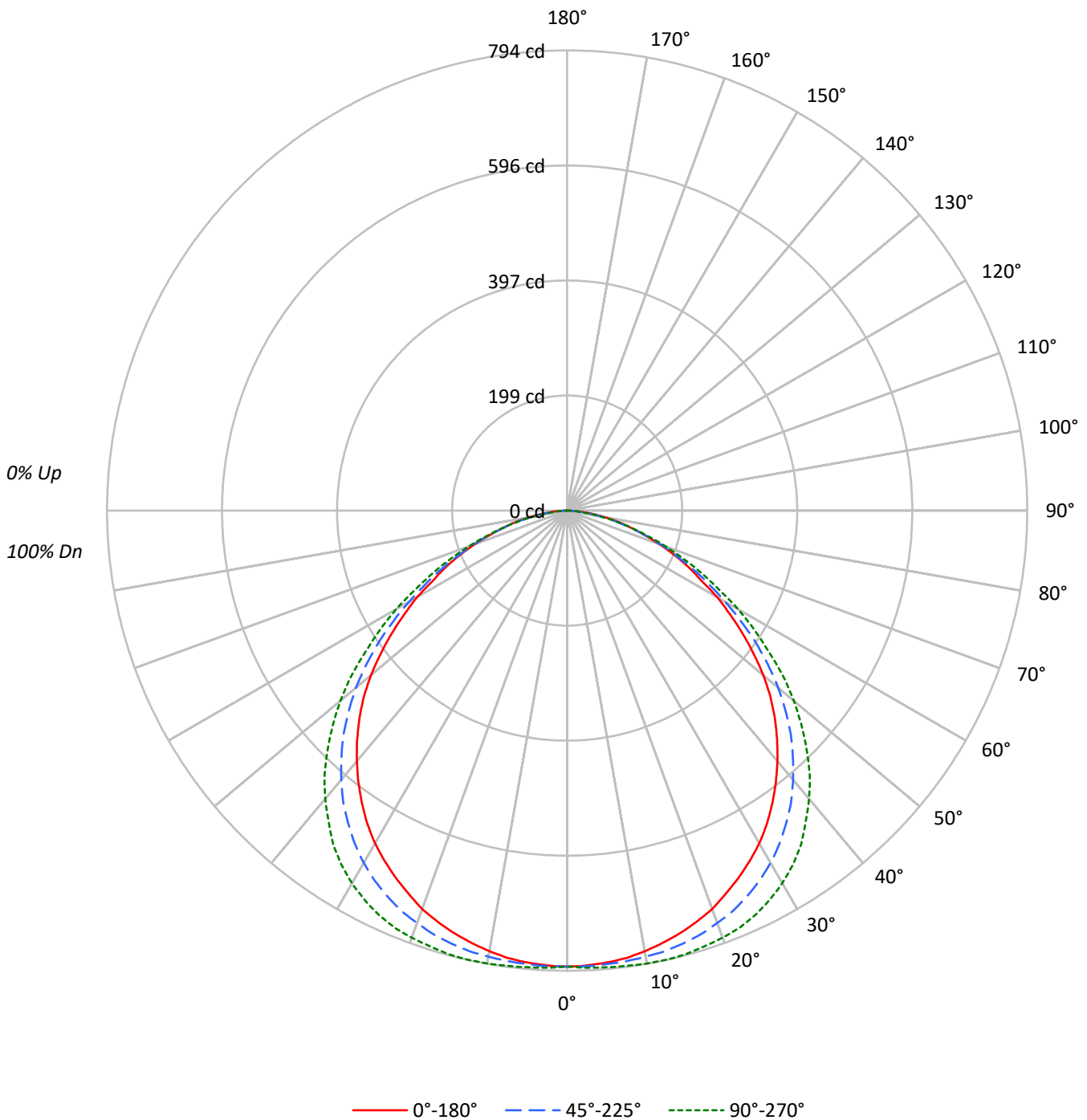
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2520	2520	2520
5°	2517	2526	2543
10°	2511	2541	2581
15°	2502	2564	2627
20°	2494	2581	2673
25°	2471	2595	2719
30°	2452	2596	2746
35°	2413	2576	2750
40°	2360	2535	2715
45°	2294	2472	2649
50°	2202	2370	2544
55°	2061	2219	2370
60°	1916	2020	2184
65°	1757	1817	1940
70°	1590	1615	1691
75°	1401	1367	1417
80°	1217	1118	1068
85°	988	742	643



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	3.4
10°-20°	218.5	9.9
20°-30°	338.5	15.4
30°-40°	412.0	18.7
40°-50°	419.6	19.0
50°-60°	353.9	16.1
60°-70°	239.4	10.9
70°-80°	119.6	5.4
80°-90°	26.6	1.2
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°	631.9	28.7
0°-40°	1043.9	47.4
0°-60°	1817.4	82.5
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	783	784	786	790	791	74
15°	755	760	773	787	792	213
25°	699	710	734	759	769	322
35°	617	631	659	690	703	386
45°	507	516	546	574	585	390
55°	369	375	398	416	424	330
65°	232	228	240	251	256	229
75°	113	109	110	112	114	121
85°	27	23	20	18	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	786.9	786.9	786.9	786.9	786.9
2.5°	785.6	785.6	786.9	788.3	789.6
5°	782.9	784.2	785.6	789.6	791.0
7.5°	778.8	780.2	784.2	789.6	792.3
10°	772.1	774.8	781.5	789.6	793.7
12.5°	764.0	768.1	778.8	788.3	793.7
15°	754.6	760.0	773.4	786.9	792.3
17.5°	743.8	750.5	766.7	781.5	788.3
20°	731.7	739.8	757.3	776.1	784.2
22.5°	715.5	726.3	747.8	769.4	778.8
25°	699.3	710.1	734.4	758.6	769.4
27.5°	681.8	693.9	719.5	746.5	757.3
30°	663.0	673.7	702.0	730.3	742.5
32.5°	641.4	652.2	681.8	711.5	724.9
35°	617.1	630.6	658.9	689.9	703.4
37.5°	591.5	603.7	634.7	664.3	676.4
40°	564.6	576.7	606.4	637.4	649.5
42.5°	536.3	548.4	576.7	606.4	619.8
45°	506.6	516.1	545.7	574.0	584.8
47.5°	475.7	482.4	510.7	537.6	548.4
50°	442.0	448.7	475.7	499.9	510.7
52.5°	405.6	411.0	436.6	458.1	470.3
55°	369.2	374.6	397.5	416.4	424.5
57.5°	332.8	335.5	355.7	374.6	382.7
60°	299.1	299.1	315.3	330.1	340.9
62.5°	260.1	264.1	276.2	291.1	295.1
65°	231.8	227.7	239.8	250.6	256.0
67.5°	199.4	196.7	204.8	214.2	216.9
70°	169.8	165.7	172.5	177.9	180.6
72.5°	138.8	137.4	140.1	144.2	145.5
75°	113.2	109.1	110.5	111.8	114.5
77.5°	90.3	83.5	84.9	83.5	84.9
80°	66.0	60.6	60.6	59.3	57.9
82.5°	44.5	41.8	39.1	36.4	35.0
85°	26.9	22.9	20.2	17.5	17.5
87.5°	10.8	8.1	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)