

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: P229680

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229680  
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-LD5-20-RDP-UNV-L830-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1512.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

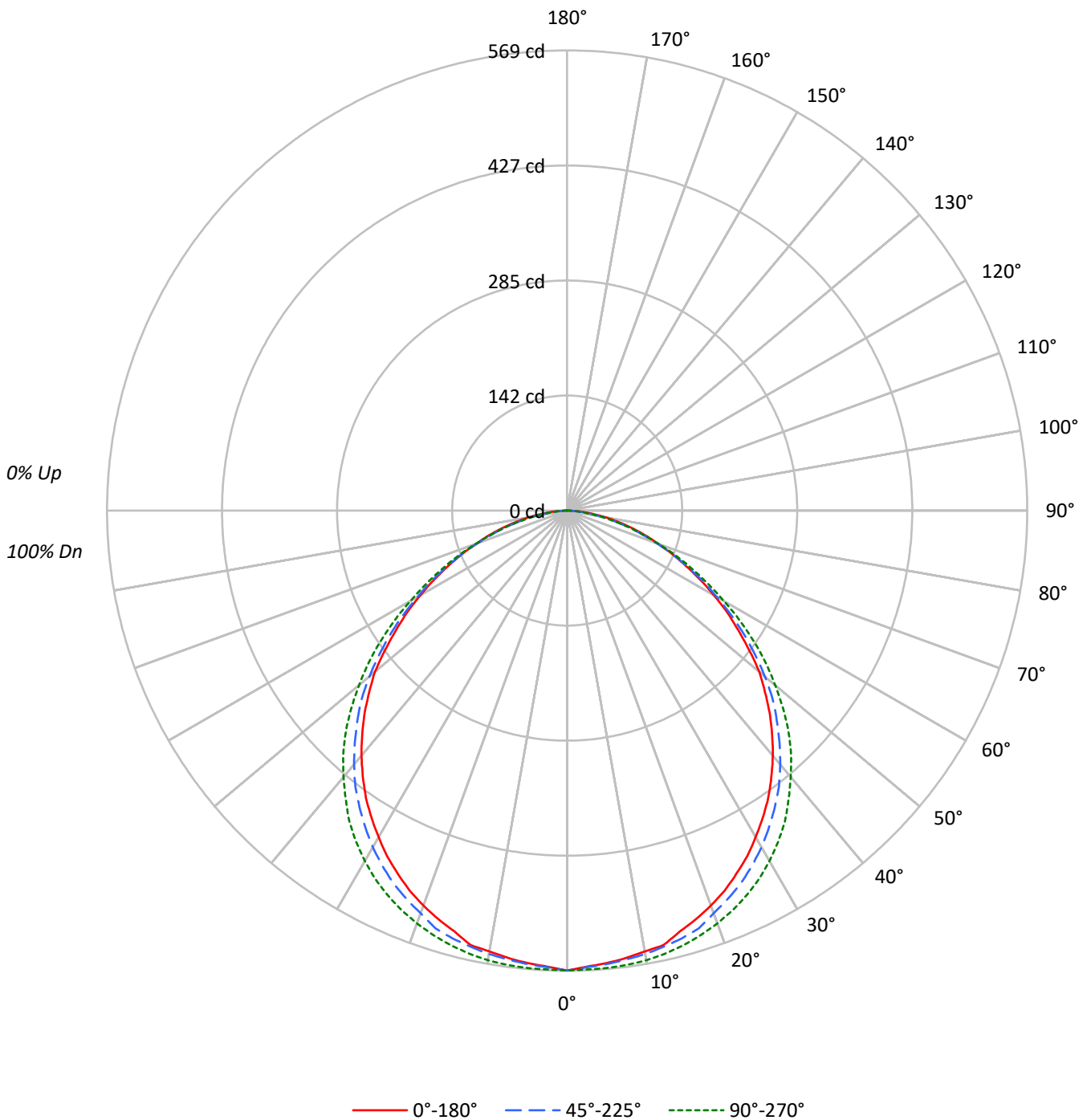
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1821	1821	1821
5°	1805	1810	1825
10°	1800	1810	1836
15°	1786	1816	1844
20°	1771	1806	1851
25°	1751	1797	1855
30°	1724	1778	1850
35°	1696	1750	1836
40°	1654	1714	1798
45°	1604	1660	1754
50°	1546	1590	1673
55°	1443	1490	1573
60°	1343	1369	1435
65°	1230	1240	1291
70°	1113	1096	1126
75°	1018	947	958
80°	907	775	751
85°	724	525	459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.5
10°-20°	154.4	10.2
20°-30°	234.7	15.5
30°-40°	280.9	18.6
40°-50°	283.7	18.8
50°-60°	239.3	15.8
60°-70°	163.4	10.8
70°-80°	82.9	5.5
80°-90°	19.1	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°	442.8	29.3
0°-40°	723.7	47.9
0°-60°	1246.6	82.4
0°-90°	1512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	562	562	563	566	568	53
15°	539	541	548	552	556	152
25°	495	500	508	519	525	228
35°	434	437	448	461	470	271
45°	354	356	367	381	387	273
55°	258	258	267	277	282	232
65°	162	160	164	167	170	161
75°	82	77	76	76	77	87
85°	20	17	14	13	12	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	568.7	568.7	568.7	568.7	568.7
2.5°	564.3	564.3	565.2	568.3	567.8
5°	561.6	561.6	562.9	565.6	567.8
7.5°	558.0	558.4	559.8	563.8	566.5
10°	553.5	554.0	556.7	560.7	564.7
12.5°	550.4	550.8	552.2	557.1	561.1
15°	538.8	541.0	547.7	551.7	556.2
17.5°	529.8	532.5	541.5	545.0	550.4
20°	519.6	522.7	529.8	537.9	543.2
22.5°	508.8	512.4	519.6	528.9	534.8
25°	495.4	499.9	508.4	519.1	524.9
27.5°	482.0	486.5	495.0	509.7	513.7
30°	466.3	471.3	480.7	495.0	500.3
32.5°	450.2	454.7	464.6	479.3	485.6
35°	433.7	437.3	447.6	461.4	469.5
37.5°	414.9	418.5	430.1	443.5	449.8
40°	395.7	398.4	410.0	423.4	430.1
42.5°	375.1	377.8	388.5	402.4	410.0
45°	354.1	355.9	366.6	380.9	387.2
47.5°	331.8	333.5	344.7	356.4	362.2
50°	310.3	309.4	319.2	330.0	335.8
52.5°	283.9	284.4	292.9	303.1	309.9
55°	258.4	258.0	266.9	276.8	281.7
57.5°	234.7	232.9	240.5	247.3	253.1
60°	209.7	207.9	213.7	220.9	224.0
62.5°	185.6	183.3	189.1	193.2	196.3
65°	162.3	160.1	163.6	166.8	170.4
67.5°	140.4	137.7	140.8	142.6	145.3
70°	118.9	116.7	117.1	119.4	120.3
72.5°	100.6	96.1	96.6	96.6	97.9
75°	82.3	77.4	76.5	76.0	77.4
77.5°	63.9	59.9	58.6	58.1	58.1
80°	49.2	43.8	42.0	40.7	40.7
82.5°	32.2	30.4	27.3	25.5	24.6
85°	19.7	17.0	14.3	13.0	12.5
87.5°	7.6	6.3	5.4	5.4	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)