

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: P232265

Luminaire Tested: **22RDI-20-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDI-20-UNV-L835-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (196) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

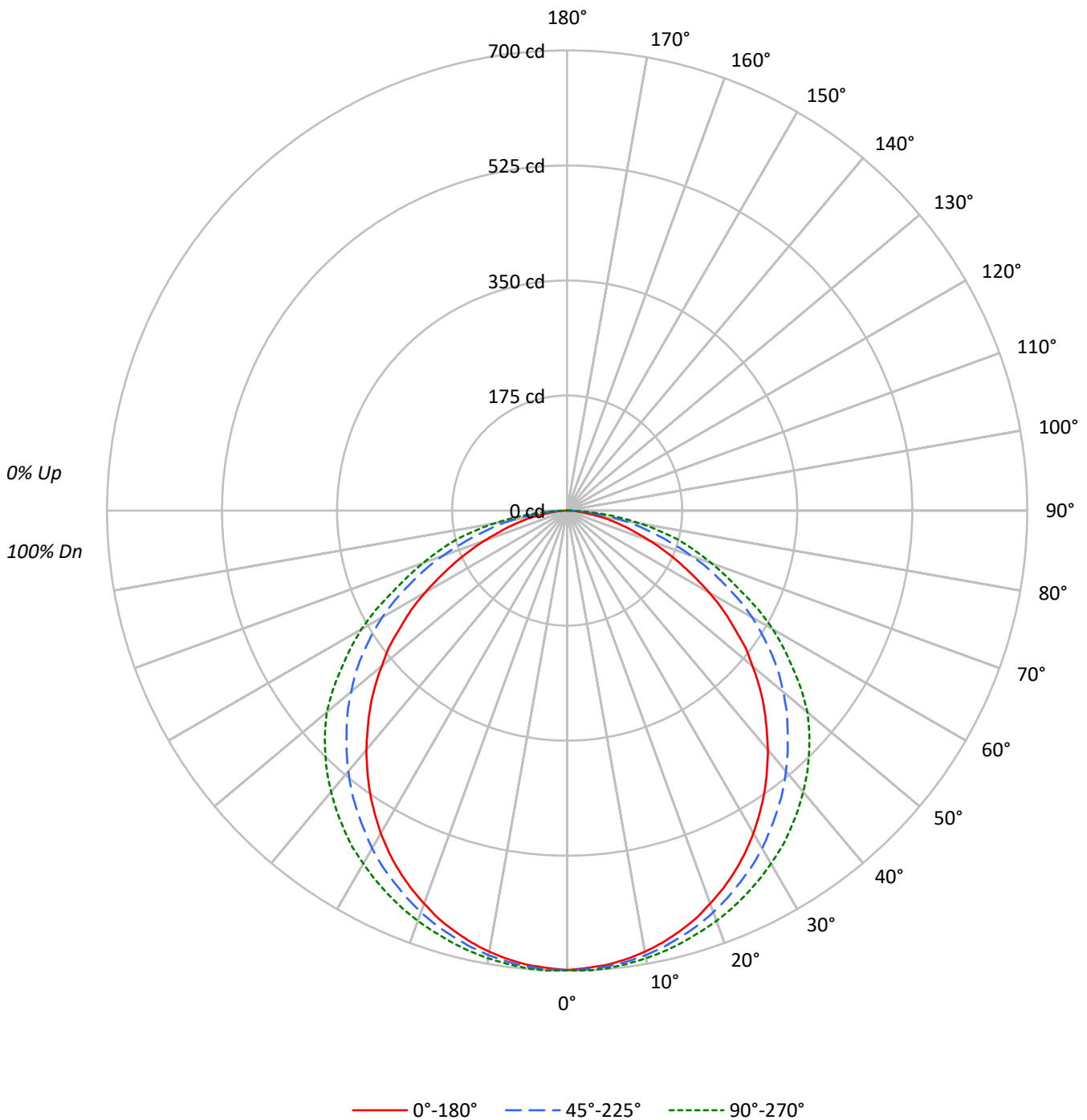
Lumens per Lamp: N/A  
Luminaire Lumens: 2026.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.9  
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	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1881	1881	1881
5°	1874	1881	1888
10°	1862	1877	1890
15°	1845	1869	1893
20°	1822	1862	1902
25°	1795	1851	1913
30°	1761	1844	1927
35°	1719	1831	1945
40°	1669	1819	1962
45°	1612	1805	1981
50°	1541	1796	1997
55°	1452	1781	1969
60°	1345	1748	1946
65°	1204	1677	1864
70°	1046	1588	1835
75°	904	1445	1855
80°	735	1347	1740
85°	537	1071	1445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	3.3
10°-20°	189.4	9.3
20°-30°	287.8	14.2
30°-40°	348.8	17.2
40°-50°	365.4	18.0
50°-60°	332.8	16.4
60°-70°	251.1	12.4
70°-80°	145.0	7.2
80°-90°	39.5	1.9
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°	543.4	26.8
0°-40°	892.2	44.0
0°-60°	1590.5	78.5
0°-90°	2026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	694	694	696	698	699	66
15°	662	665	671	677	680	187
25°	605	611	624	639	644	278
35°	523	534	557	581	592	327
45°	424	440	474	508	520	326
55°	309	335	380	412	420	277
65°	189	220	263	287	293	188
75°	87	109	139	166	178	93
85°	17	23	35	43	47	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	699.0	699.0	699.0	699.0	699.0
2.5°	696.3	697.0	698.3	699.6	700.3
5°	693.6	694.3	696.3	698.3	699.0
7.5°	688.3	689.6	692.3	695.0	695.6
10°	681.6	682.9	686.9	690.3	691.6
12.5°	672.9	674.9	679.6	684.3	686.3
15°	662.2	664.9	670.9	676.9	679.6
17.5°	650.9	653.5	661.5	669.6	672.2
20°	636.2	640.2	650.2	660.2	664.2
22.5°	621.4	625.5	637.5	650.2	654.9
25°	604.7	610.8	623.5	638.8	644.2
27.5°	586.7	593.4	609.4	626.1	632.8
30°	566.7	574.7	593.4	612.8	620.1
32.5°	545.3	554.6	575.3	598.1	607.4
35°	523.2	533.9	557.3	581.4	592.0
37.5°	499.2	511.2	538.6	564.7	576.0
40°	475.1	487.8	517.9	547.3	558.6
42.5°	449.0	464.4	496.5	528.6	540.6
45°	423.7	439.7	474.4	508.5	520.5
47.5°	396.9	414.3	453.1	487.1	499.8
50°	368.2	388.9	429.0	464.4	477.1
52.5°	341.5	362.8	405.6	439.0	449.7
55°	309.4	334.8	379.6	411.6	419.6
57.5°	281.3	306.7	352.2	380.9	390.9
60°	249.9	279.3	324.8	351.5	361.5
62.5°	217.8	249.9	295.4	320.1	328.8
65°	189.1	220.5	263.3	286.7	292.7
67.5°	161.0	193.1	233.9	255.3	261.9
70°	133.0	163.7	201.8	222.5	233.2
72.5°	107.6	137.0	169.1	194.5	204.5
75°	86.9	108.9	139.0	166.4	178.4
77.5°	66.8	84.2	112.9	139.0	145.7
80°	47.4	61.5	86.9	107.6	112.3
82.5°	30.1	42.1	60.8	74.2	80.2
85°	17.4	23.4	34.7	42.8	46.8
87.5°	7.4	10.0	12.0	14.0	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)