

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: P475433

Luminaire Tested: **14CZ2-29-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475433  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-RDP-UNV-L840-CD1-U  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1925.1 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

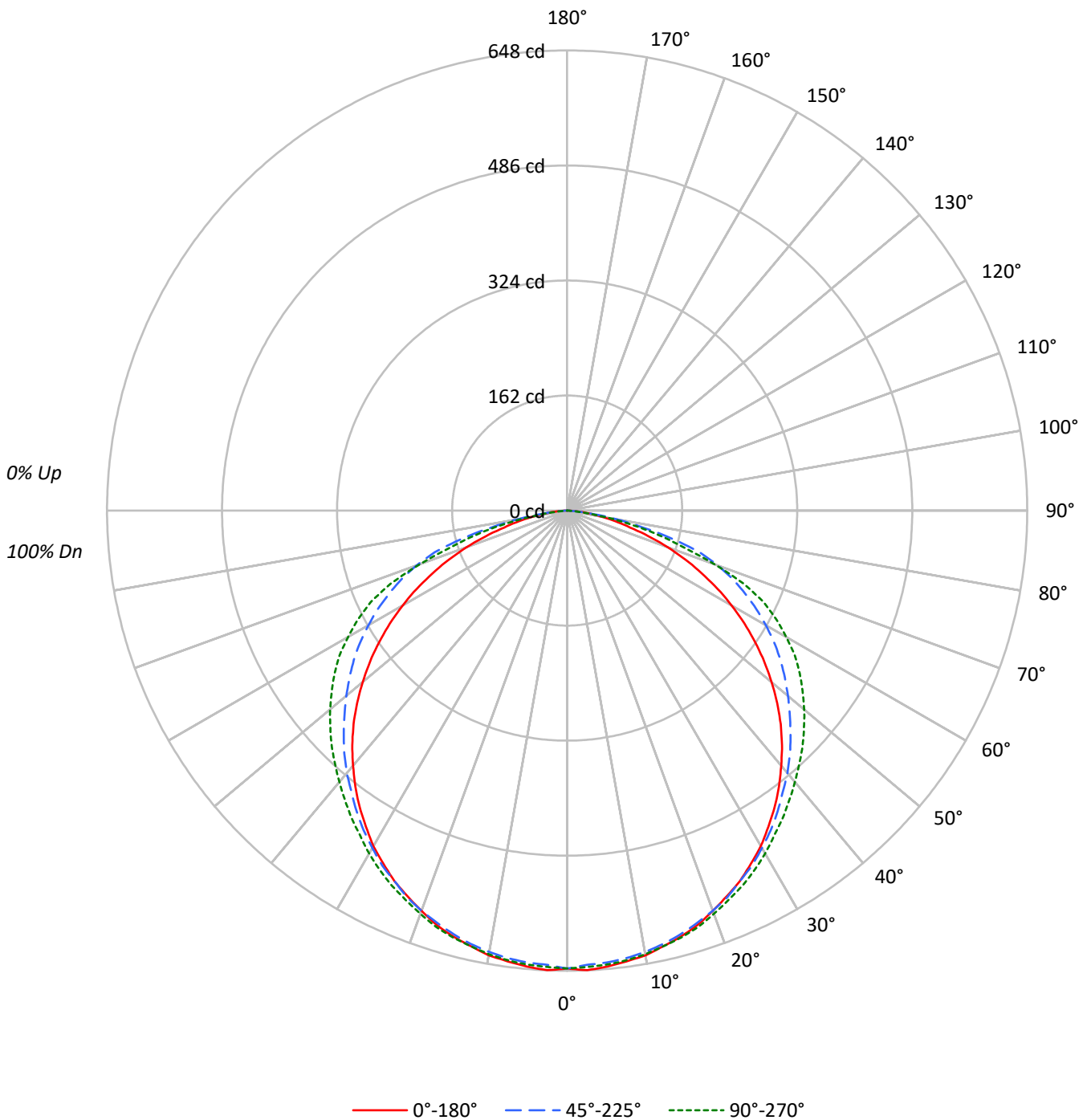
Input Watts (W): 21.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1735	1735	1735
5°	1742	1726	1734
10°	1737	1725	1733
15°	1729	1721	1733
20°	1717	1717	1730
25°	1709	1709	1732
30°	1695	1705	1733
35°	1674	1698	1738
40°	1647	1695	1753
45°	1619	1693	1784
50°	1573	1699	1825
55°	1516	1720	1876
60°	1440	1739	1917
65°	1330	1761	1943
70°	1183	1773	1738
75°	953	1594	1391
80°	745	1117	908
85°	509	324	232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	3.2
10°-20°	175.1	9.1
20°-30°	266.6	13.8
30°-40°	324.7	16.9
40°-50°	344.5	17.9
50°-60°	325.2	16.9
60°-70°	262.5	13.6
70°-80°	142.4	7.4
80°-90°	23.0	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°	502.7	26.1
0°-40°	827.5	43.0
0°-60°	1497.1	77.8
0°-90°	1925.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	645	643	639	643	642	61
15°	621	619	618	622	622	175
25°	576	574	576	582	583	265
35°	510	512	517	528	529	319
45°	425	431	445	461	469	328
55°	323	337	367	391	400	289
65°	209	234	276	299	305	207
75°	92	134	153	138	134	100
85°	16	18	10	9	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	644.8	644.8	644.8	644.8	644.8
2.5°	647.8	644.8	640.3	644.8	643.3
5°	644.8	643.3	638.8	643.3	641.8
7.5°	640.3	640.3	635.8	638.8	638.8
10°	635.8	634.3	631.2	635.8	634.3
12.5°	628.2	626.7	625.2	629.7	628.2
15°	620.7	619.2	617.7	622.2	622.2
17.5°	611.7	610.2	608.7	614.7	614.7
20°	599.7	599.7	599.7	605.7	604.2
22.5°	587.7	587.7	589.2	595.2	593.7
25°	575.6	574.1	575.6	581.6	583.2
27.5°	560.6	562.1	563.6	569.6	571.1
30°	545.6	547.1	548.6	556.1	557.6
32.5°	527.5	530.5	533.6	542.6	542.6
35°	509.5	512.5	517.0	527.5	529.0
37.5°	490.0	493.0	499.0	511.0	514.0
40°	468.9	473.4	482.5	494.5	499.0
42.5°	447.9	453.9	464.4	477.9	484.0
45°	425.3	431.4	444.9	461.4	468.9
47.5°	401.3	408.8	425.3	446.4	452.4
50°	375.7	386.3	405.8	428.3	435.9
52.5°	350.2	362.2	386.3	410.3	417.8
55°	323.1	336.7	366.7	390.8	399.8
57.5°	296.1	311.1	345.7	371.2	380.3
60°	267.5	285.6	323.1	348.7	356.2
62.5°	239.0	260.0	300.6	326.1	332.2
65°	208.9	234.5	276.5	299.1	305.1
67.5°	180.4	210.4	252.5	269.0	269.0
70°	150.3	183.4	225.4	230.0	220.9
72.5°	120.2	157.8	195.4	178.9	171.3
75°	91.7	133.8	153.3	138.3	133.8
77.5°	69.1	108.2	108.2	99.2	96.2
80°	48.1	82.7	72.1	63.1	58.6
82.5°	31.6	46.6	37.6	30.1	25.6
85°	16.5	18.0	10.5	9.0	7.5
87.5°	6.0	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)