

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: P229567

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1733.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

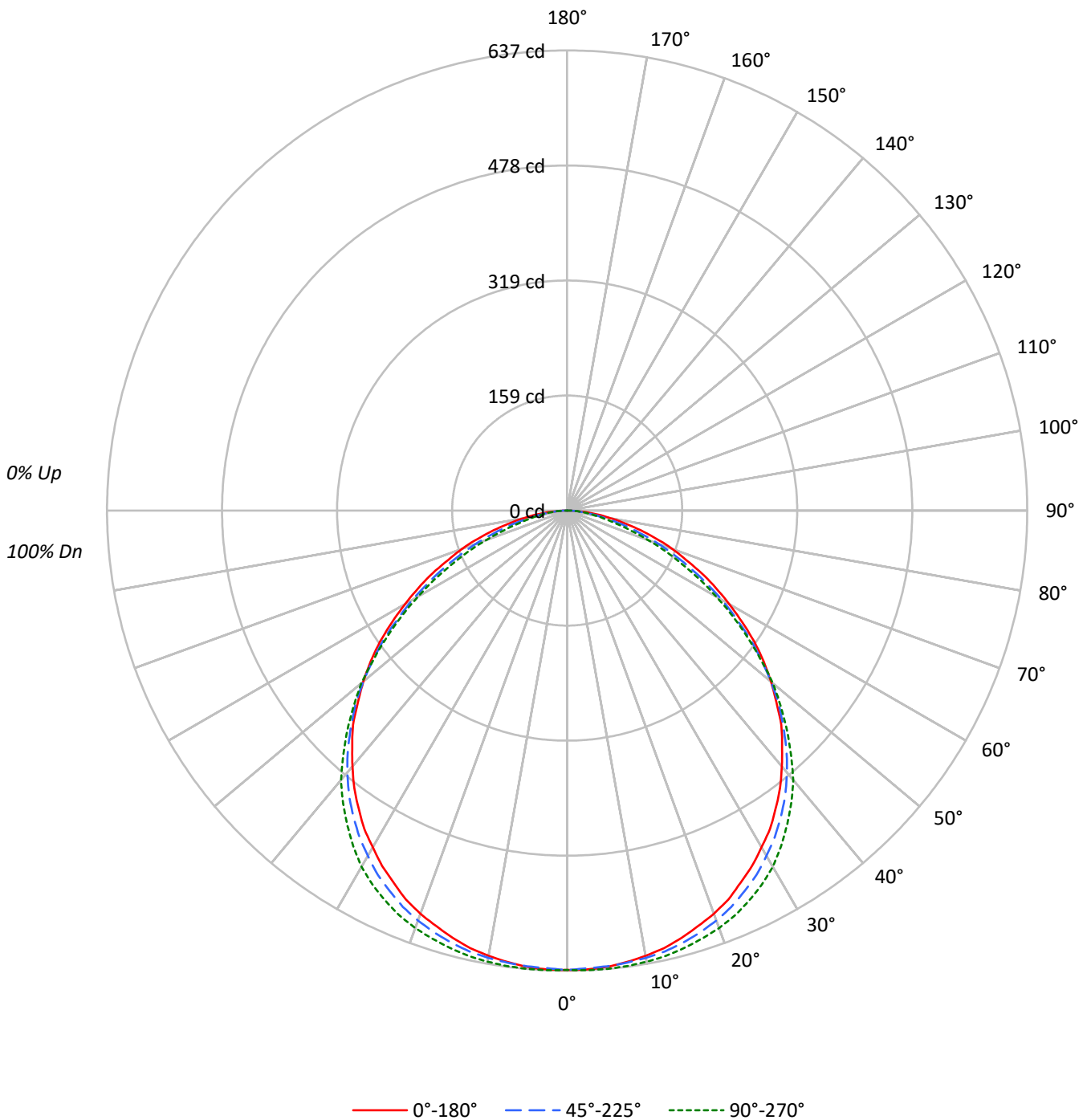
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2143	2143	2143
5°	2145	2142	2154
10°	2142	2151	2170
15°	2136	2161	2187
20°	2130	2165	2205
25°	2113	2160	2215
30°	2094	2147	2215
35°	2071	2123	2184
40°	2034	2082	2142
45°	1999	2016	2051
50°	1930	1930	1950
55°	1857	1814	1788
60°	1749	1669	1607
65°	1639	1501	1398
70°	1521	1323	1170
75°	1368	1118	928
80°	1188	869	780
85°	1025	742	742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.5
10°-20°	175.0	10.1
20°-30°	268.3	15.5
30°-40°	323.2	18.6
40°-50°	326.5	18.8
50°-60°	275.6	15.9
60°-70°	187.3	10.8
70°-80°	92.8	5.4
80°-90°	23.7	1.4
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°	503.8	29.1
0°-40°	827.0	47.7
0°-60°	1429.1	82.5
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	634	634	633	636	637	60
15°	612	615	620	625	627	173
25°	568	573	581	593	596	262
35°	503	507	516	528	531	315
45°	419	417	423	430	430	322
55°	316	310	309	306	304	282
65°	206	196	188	179	175	204
75°	105	97	86	75	71	112
85°	26	20	19	19	19	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.9	635.9	635.9	635.9	635.9
2.5°	635.9	635.9	634.1	636.8	636.8
5°	634.1	634.1	633.2	635.9	636.8
7.5°	630.4	631.4	631.4	635.0	635.9
10°	625.9	626.8	628.6	633.2	634.1
12.5°	620.4	622.2	625.0	629.5	631.4
15°	612.2	614.9	619.5	625.0	626.8
17.5°	603.0	606.7	612.2	619.5	621.3
20°	593.9	596.6	603.9	612.2	614.9
22.5°	582.9	586.6	593.9	603.0	606.7
25°	568.3	572.9	581.1	593.0	595.7
27.5°	554.6	559.2	568.3	580.2	583.8
30°	538.2	543.6	551.9	564.7	569.2
32.5°	522.6	525.4	535.4	547.3	551.0
35°	503.4	507.1	516.2	528.1	530.9
37.5°	484.3	487.0	496.1	507.1	509.8
40°	462.3	465.1	473.3	484.3	487.0
42.5°	440.4	442.2	449.5	458.7	458.7
45°	419.4	416.6	423.0	430.3	430.3
47.5°	392.9	392.9	397.5	401.1	401.1
50°	368.2	366.4	368.2	370.0	371.9
52.5°	342.6	339.0	338.1	338.1	337.1
55°	316.1	309.7	308.8	306.1	304.3
57.5°	286.9	282.3	276.8	273.2	271.4
60°	259.5	251.3	247.6	241.2	238.5
62.5°	232.1	224.8	216.5	210.1	207.4
65°	205.6	195.5	188.2	179.1	175.4
67.5°	178.2	169.0	159.9	151.7	148.0
70°	154.4	143.4	134.3	122.4	118.8
72.5°	129.7	119.7	108.7	97.8	93.2
75°	105.1	96.9	85.9	74.9	71.3
77.5°	82.2	74.9	64.0	54.8	53.9
80°	61.2	54.8	44.8	41.1	40.2
82.5°	43.9	36.5	30.2	29.2	29.2
85°	26.5	20.1	19.2	19.2	19.2
87.5°	10.1	9.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)