

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: P229497

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L930-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

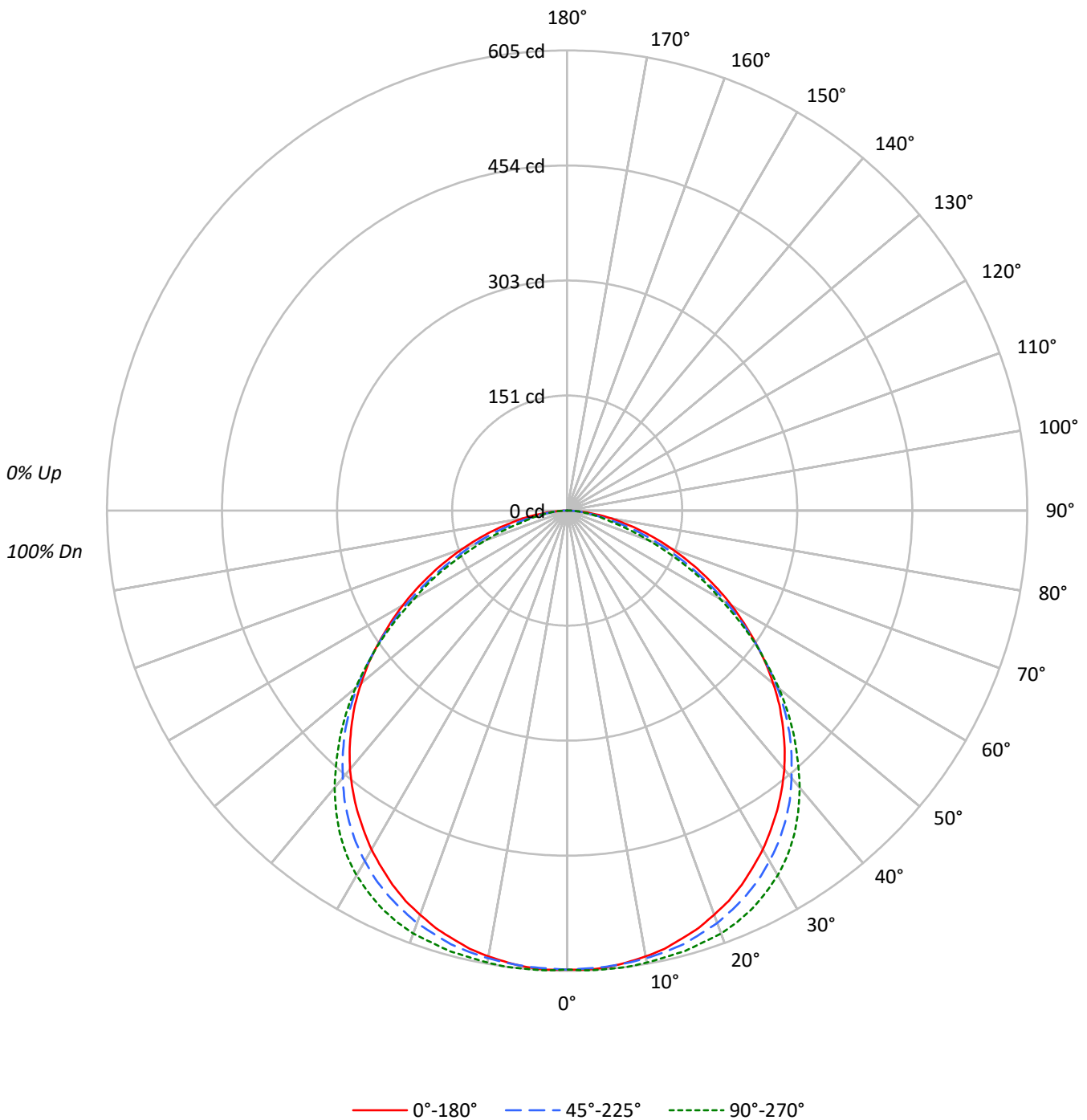
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2034	2034	2034
5°	2038	2036	2047
10°	2037	2045	2065
15°	2033	2059	2091
20°	2027	2069	2122
25°	2018	2074	2145
30°	2002	2070	2154
35°	1980	2056	2141
40°	1953	2019	2092
45°	1910	1970	2013
50°	1854	1888	1906
55°	1775	1770	1761
60°	1684	1628	1566
65°	1568	1456	1377
70°	1431	1276	1112
75°	1286	1058	832
80°	1143	772	726
85°	897	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.4
10°-20°	166.9	10.0
20°-30°	257.7	15.4
30°-40°	312.5	18.7
40°-50°	317.3	19.0
50°-60°	268.4	16.1
60°-70°	181.6	10.9
70°-80°	87.8	5.3
80°-90°	21.4	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°	482.0	28.8
0°-40°	794.5	47.5
0°-60°	1380.2	82.6
0°-90°	1671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	603	602	604	605	57
15°	583	586	590	597	599	165
25°	543	547	558	572	577	250
35°	481	486	500	516	520	301
45°	401	402	413	422	422	309
55°	302	300	301	301	300	270
65°	197	188	183	175	173	195
75°	99	91	81	71	64	105
85°	23	18	17	17	17	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.5	603.5	603.5	603.5	603.5
2.5°	604.3	604.3	602.6	604.3	605.1
5°	602.6	602.6	601.8	604.3	605.1
7.5°	599.3	600.1	600.1	603.5	605.1
10°	595.2	596.8	597.6	602.6	603.5
12.5°	590.2	591.8	594.3	600.1	601.0
15°	582.7	586.0	590.2	596.8	599.3
17.5°	575.2	578.6	583.5	592.7	595.2
20°	565.3	569.4	576.9	587.7	591.8
22.5°	555.3	558.6	567.8	581.0	585.2
25°	542.9	547.0	557.8	571.9	576.9
27.5°	528.8	534.6	546.2	561.1	566.1
30°	514.6	519.6	532.1	548.7	553.7
32.5°	498.0	503.0	517.1	532.9	538.7
35°	481.4	486.4	499.7	515.5	520.5
37.5°	463.2	466.5	480.6	493.9	498.9
40°	444.1	446.6	459.0	472.3	475.6
42.5°	423.3	425.0	436.6	448.2	449.1
45°	400.9	401.8	413.4	421.7	422.5
47.5°	378.5	377.7	387.6	393.5	394.3
50°	353.6	353.6	360.2	363.6	363.6
52.5°	328.7	327.0	330.4	332.9	330.4
55°	302.1	299.7	301.3	301.3	299.7
57.5°	275.6	270.6	271.4	269.8	265.6
60°	249.9	244.0	241.5	235.7	232.4
62.5°	223.3	216.6	211.7	205.0	204.2
65°	196.7	188.4	182.6	175.1	172.7
67.5°	171.0	163.5	155.2	146.9	141.9
70°	145.3	137.0	129.5	118.7	112.9
72.5°	122.0	114.5	105.4	93.0	88.8
75°	98.8	91.3	81.3	70.6	63.9
77.5°	76.4	70.6	59.8	50.6	49.8
80°	58.9	52.3	39.8	37.4	37.4
82.5°	38.2	34.0	28.2	26.6	26.6
85°	23.2	18.3	16.6	16.6	16.6
87.5°	9.1	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)