

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: P229484

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229484
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-LD5-31-RDP-UNV-L830-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2573.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

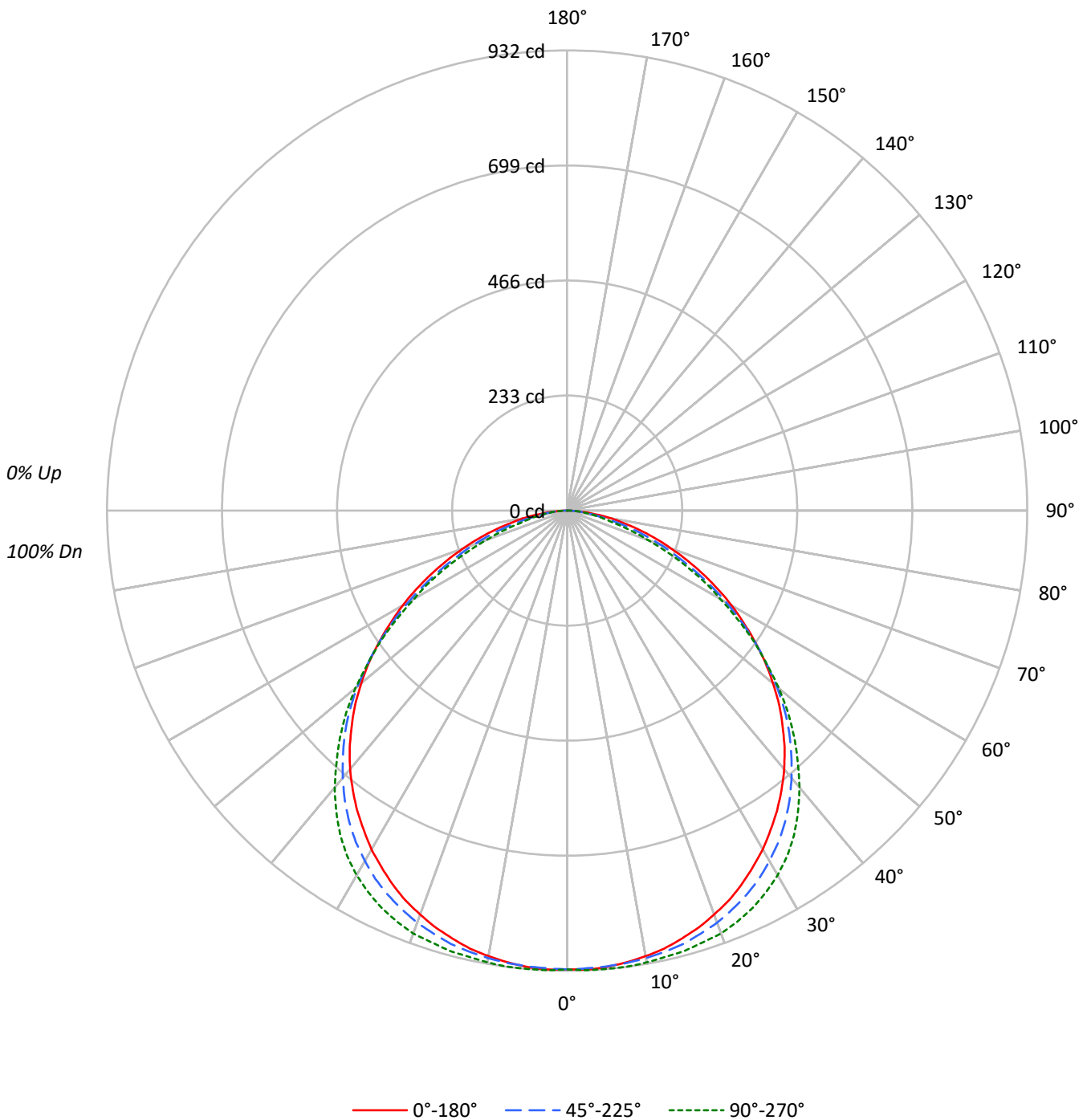
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3131	3131	3131
5°	3139	3134	3152
10°	3136	3149	3179
15°	3130	3170	3219
20°	3121	3185	3268
25°	3108	3193	3303
30°	3083	3188	3317
35°	3049	3165	3297
40°	3008	3109	3222
45°	2942	3033	3100
50°	2854	2908	2935
55°	2733	2726	2711
60°	2593	2506	2412
65°	2415	2242	2120
70°	2204	1964	1712
75°	1980	1631	1281
80°	1760	1191	1116
85°	1384	990	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.4
10°-20°	257.1	10.0
20°-30°	396.7	15.4
30°-40°	481.2	18.7
40°-50°	488.5	19.0
50°-60°	413.3	16.1
60°-70°	279.6	10.9
70°-80°	135.2	5.3
80°-90°	33.0	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°	742.2	28.8
0°-40°	1223.4	47.5
0°-60°	2125.2	82.6
0°-90°	2573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	928	928	927	930	932	88
15°	897	902	909	919	923	253
25°	836	842	859	881	888	385
35°	741	749	769	794	801	463
45°	617	619	636	649	651	476
55°	465	461	464	464	461	416
65°	303	290	281	270	266	300
75°	152	141	125	109	98	162
85°	36	28	26	26	26	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.2	929.2	929.2	929.2	929.2
2.5°	930.5	930.5	927.9	930.5	931.8
5°	927.9	927.9	926.6	930.5	931.8
7.5°	922.8	924.1	924.1	929.2	931.8
10°	916.4	919.0	920.3	927.9	929.2
12.5°	908.8	911.3	915.1	924.1	925.4
15°	897.3	902.4	908.8	919.0	922.8
17.5°	885.7	890.9	898.5	912.6	916.4
20°	870.4	876.8	888.3	904.9	911.3
22.5°	855.1	860.2	874.2	894.7	901.1
25°	835.9	842.3	858.9	880.6	888.3
27.5°	814.2	823.1	841.0	864.0	871.7
30°	792.4	800.1	819.3	844.8	852.5
32.5°	766.9	774.6	796.3	820.6	829.5
35°	741.3	749.0	769.4	793.7	801.4
37.5°	713.2	718.3	740.0	760.5	768.2
40°	683.8	687.6	706.8	727.3	732.4
42.5°	651.8	654.4	672.3	690.2	691.5
45°	617.3	618.6	636.5	649.3	650.6
47.5°	582.8	581.6	596.9	605.8	607.1
50°	544.5	544.5	554.7	559.8	559.8
52.5°	506.1	503.6	508.7	512.5	508.7
55°	465.2	461.4	464.0	464.0	461.4
57.5°	424.3	416.7	418.0	415.4	409.0
60°	384.7	375.8	371.9	363.0	357.9
62.5°	343.8	333.6	325.9	315.7	314.4
65°	302.9	290.1	281.2	269.7	265.9
67.5°	263.3	251.8	239.0	226.2	218.6
70°	223.7	210.9	199.4	182.8	173.8
72.5°	187.9	176.4	162.3	143.2	136.8
75°	152.1	140.6	125.3	108.6	98.4
77.5°	117.6	108.6	92.0	78.0	76.7
80°	90.7	80.5	61.4	57.5	57.5
82.5°	58.8	52.4	43.5	40.9	40.9
85°	35.8	28.1	25.6	25.6	25.6
87.5°	14.1	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)