

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: P229554

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229554
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-LD5-31-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

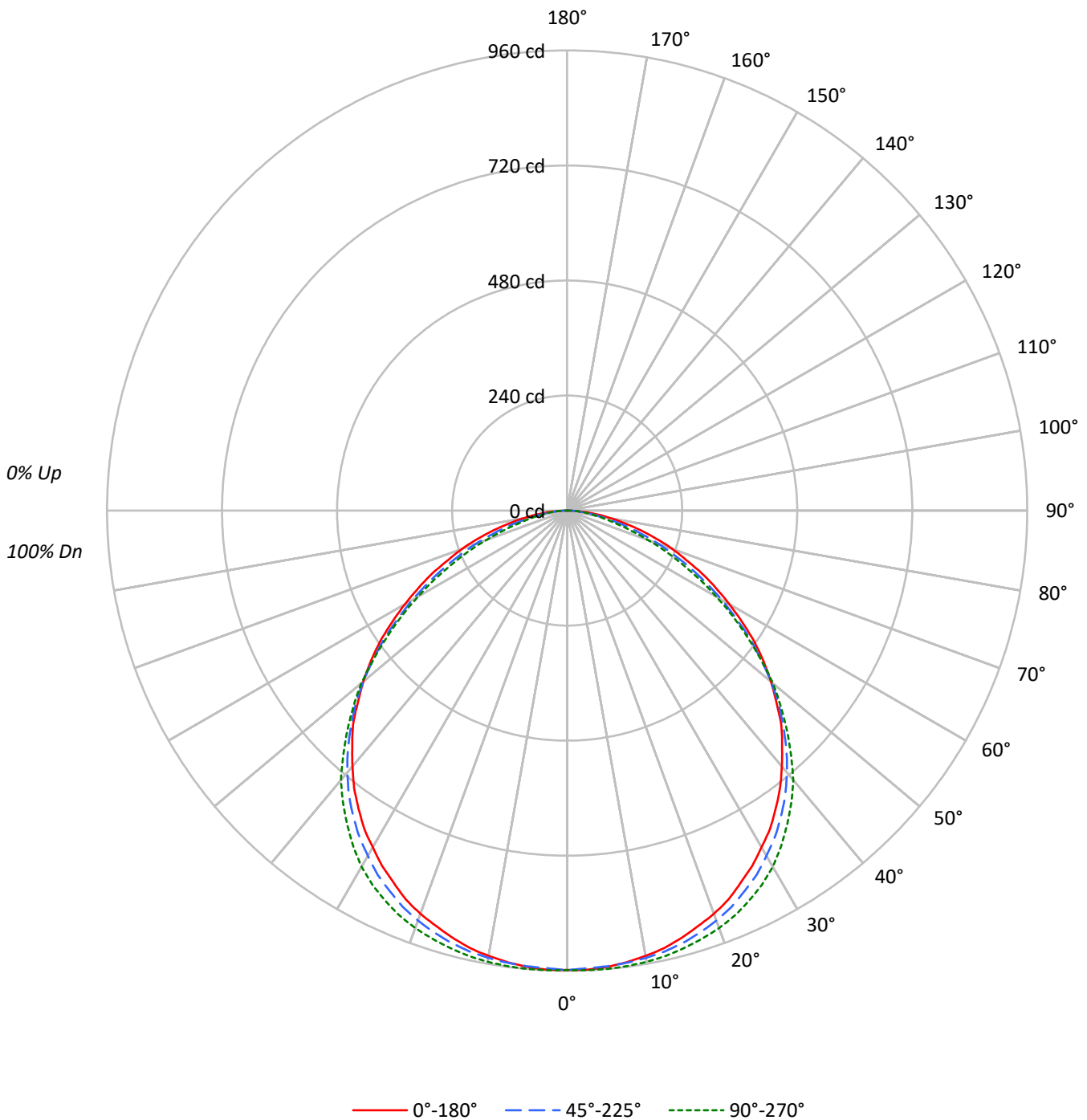
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3230	3230	3230
5°	3233	3228	3247
10°	3228	3242	3270
15°	3219	3257	3296
20°	3210	3264	3323
25°	3185	3256	3338
30°	3156	3236	3338
35°	3121	3201	3291
40°	3065	3138	3229
45°	3012	3038	3091
50°	2909	2909	2938
55°	2799	2735	2694
60°	2636	2515	2422
65°	2471	2262	2108
70°	2293	1994	1764
75°	2062	1685	1398
80°	1791	1310	1176
85°	1543	1117	1117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.5
10°-20°	263.8	10.1
20°-30°	404.5	15.5
30°-40°	487.1	18.6
40°-50°	492.2	18.8
50°-60°	415.3	15.9
60°-70°	282.3	10.8
70°-80°	139.9	5.4
80°-90°	35.7	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°	759.3	29.1
0°-40°	1246.5	47.7
0°-60°	2154.0	82.5
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	956	956	954	958	960	91
15°	923	927	934	942	945	260
25°	857	864	876	894	898	395
35°	759	764	778	796	800	475
45°	632	628	638	649	649	485
55°	476	467	466	461	459	424
65°	310	295	284	270	264	307
75°	158	146	129	113	107	169
85°	40	30	29	29	29	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.5	958.5	958.5	958.5	958.5
2.5°	958.5	958.5	955.7	959.9	959.9
5°	955.7	955.7	954.3	958.5	959.9
7.5°	950.2	951.6	951.6	957.1	958.5
10°	943.3	944.7	947.5	954.3	955.7
12.5°	935.1	937.8	941.9	948.8	951.6
15°	922.7	926.8	933.7	941.9	944.7
17.5°	908.9	914.4	922.7	933.7	936.4
20°	895.1	899.3	910.3	922.7	926.8
22.5°	878.6	884.1	895.1	908.9	914.4
25°	856.6	863.5	875.8	893.7	897.9
27.5°	835.9	842.8	856.6	874.5	880.0
30°	811.1	819.4	831.8	851.1	857.9
32.5°	787.7	791.8	807.0	824.9	830.4
35°	758.8	764.3	778.1	796.0	800.1
37.5°	729.9	734.0	747.8	764.3	768.4
40°	696.8	701.0	713.3	729.9	734.0
42.5°	663.8	666.5	677.5	691.3	691.3
45°	632.1	628.0	637.6	648.6	648.6
47.5°	592.2	592.2	599.0	604.6	604.6
50°	555.0	552.2	555.0	557.7	560.5
52.5°	516.4	510.9	509.5	509.5	508.2
55°	476.5	466.8	465.5	461.3	458.6
57.5°	432.4	425.5	417.3	411.8	409.0
60°	391.1	378.7	373.2	363.6	359.4
62.5°	349.8	338.8	326.4	316.7	312.6
65°	309.9	294.7	283.7	269.9	264.4
67.5°	268.5	254.8	241.0	228.6	223.1
70°	232.7	216.2	202.4	184.5	179.0
72.5°	195.6	180.4	163.9	147.4	140.5
75°	158.4	146.0	129.4	112.9	107.4
77.5°	123.9	112.9	96.4	82.6	81.2
80°	92.3	82.6	67.5	62.0	60.6
82.5°	66.1	55.1	45.4	44.1	44.1
85°	39.9	30.3	28.9	28.9	28.9
87.5°	15.1	13.8	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)