

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: P229610

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-RDP-UNV-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

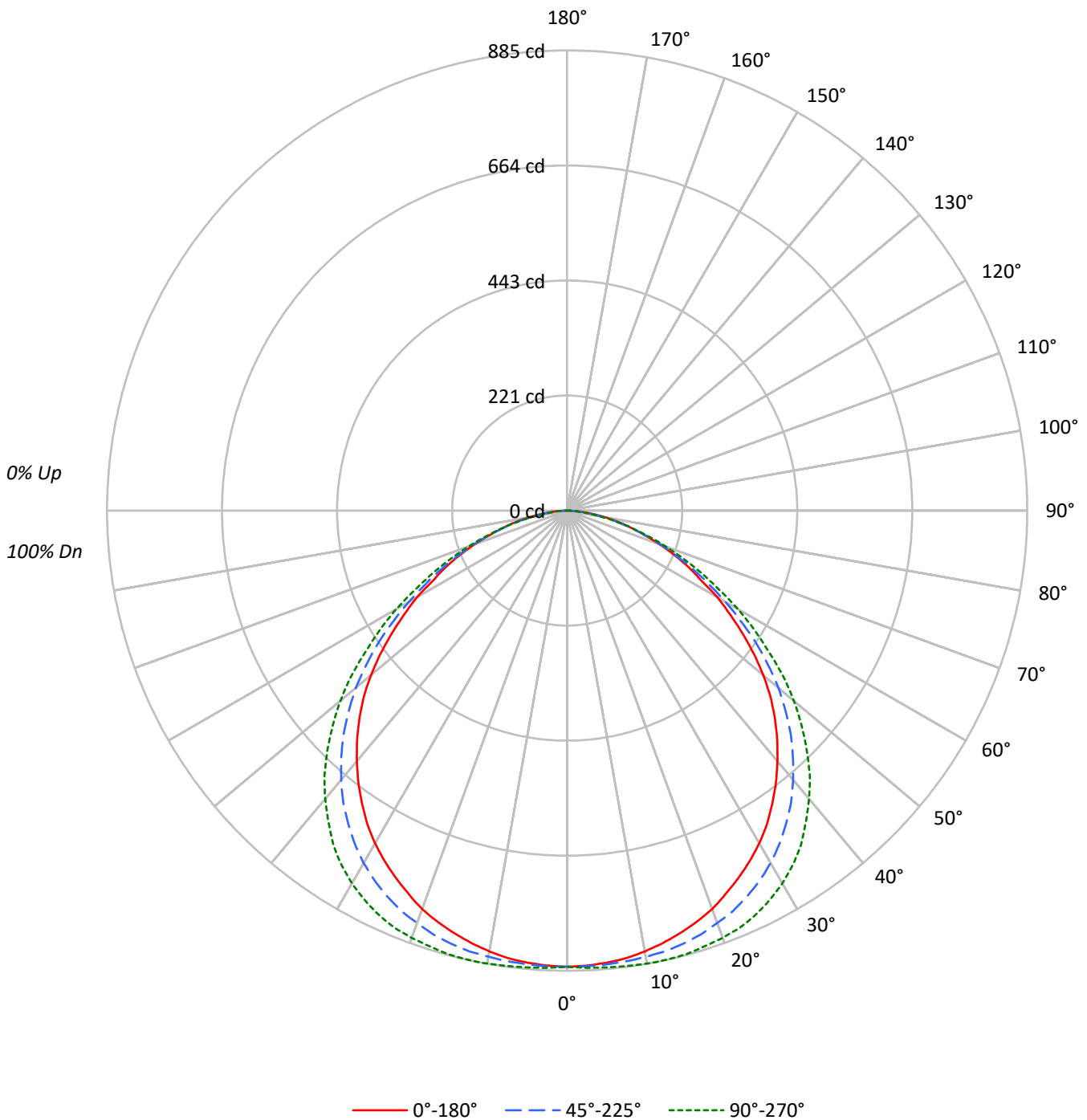
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2810	2810	2810
5°	2806	2816	2835
10°	2799	2833	2877
15°	2789	2859	2929
20°	2780	2877	2980
25°	2755	2893	3031
30°	2733	2894	3061
35°	2690	2872	3066
40°	2631	2826	3027
45°	2558	2756	2953
50°	2455	2642	2836
55°	2298	2475	2642
60°	2136	2251	2435
65°	1958	2026	2163
70°	1773	1801	1885
75°	1562	1524	1580
80°	1357	1247	1191
85°	1102	827	717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.4
10°-20°	243.6	9.9
20°-30°	377.4	15.4
30°-40°	459.3	18.7
40°-50°	467.8	19.0
50°-60°	394.5	16.1
60°-70°	266.9	10.9
70°-80°	133.3	5.4
80°-90°	29.7	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°	704.5	28.7
0°-40°	1163.8	47.4
0°-60°	2026.1	82.5
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	873	874	876	880	882	83
15°	841	847	862	877	883	237
25°	780	792	819	846	858	359
35°	688	703	735	769	784	430
45°	565	575	608	640	652	435
55°	412	418	443	464	473	368
65°	258	254	267	279	285	255
75°	126	122	123	125	128	135
85°	30	26	22	20	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.3	877.3	877.3	877.3	877.3
2.5°	875.8	875.8	877.3	878.8	880.3
5°	872.8	874.3	875.8	880.3	881.8
7.5°	868.3	869.8	874.3	880.3	883.3
10°	860.8	863.8	871.3	880.3	884.8
12.5°	851.8	856.3	868.3	878.8	884.8
15°	841.2	847.2	862.3	877.3	883.3
17.5°	829.2	836.7	854.8	871.3	878.8
20°	815.7	824.7	844.2	865.3	874.3
22.5°	797.7	809.7	833.7	857.8	868.3
25°	779.6	791.7	818.7	845.7	857.8
27.5°	760.1	773.6	802.2	832.2	844.2
30°	739.1	751.1	782.7	814.2	827.7
32.5°	715.1	727.1	760.1	793.2	808.2
35°	688.0	703.0	734.6	769.1	784.2
37.5°	659.5	673.0	707.5	740.6	754.1
40°	629.4	642.9	676.0	710.5	724.1
42.5°	597.9	611.4	642.9	676.0	691.0
45°	564.8	575.3	608.4	639.9	652.0
47.5°	530.3	537.8	569.3	599.4	611.4
50°	492.7	500.2	530.3	557.3	569.3
52.5°	452.2	458.2	486.7	510.8	524.3
55°	411.6	417.6	443.2	464.2	473.2
57.5°	371.0	374.1	396.6	417.6	426.6
60°	333.5	333.5	351.5	368.0	380.1
62.5°	289.9	294.4	308.0	324.5	329.0
65°	258.4	253.9	267.4	279.4	285.4
67.5°	222.3	219.3	228.3	238.9	241.9
70°	189.3	184.8	192.3	198.3	201.3
72.5°	154.7	153.2	156.2	160.7	162.2
75°	126.2	121.7	123.2	124.7	127.7
77.5°	100.6	93.1	94.6	93.1	94.6
80°	73.6	67.6	67.6	66.1	64.6
82.5°	49.6	46.6	43.6	40.6	39.1
85°	30.0	25.5	22.5	19.5	19.5
87.5°	12.0	9.0	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)