

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: P229926

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2161.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

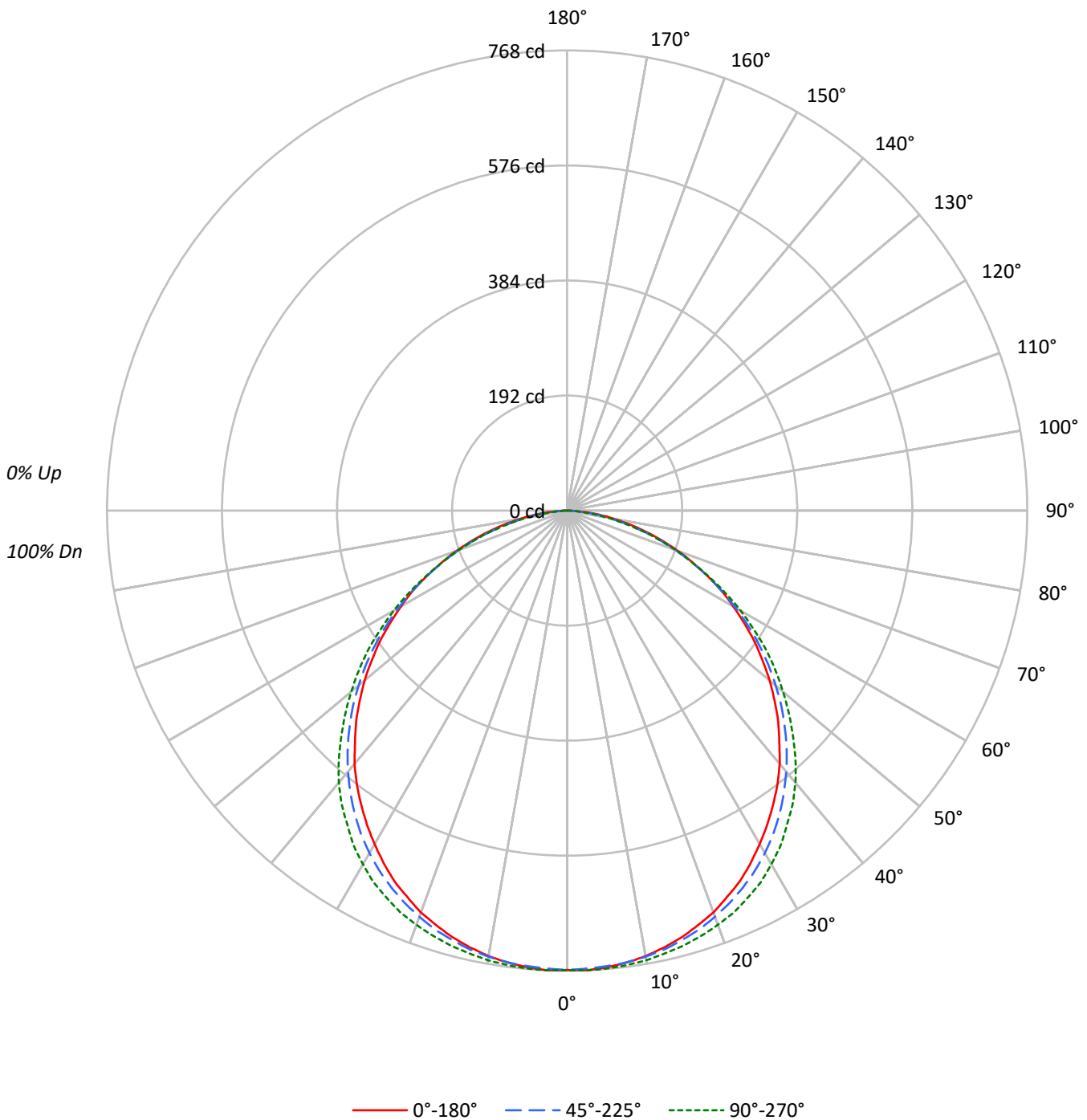
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1174	1174	1174
5°	1176	1173	1180
10°	1174	1176	1185
15°	1169	1177	1191
20°	1163	1176	1199
25°	1153	1173	1205
30°	1137	1167	1205
35°	1120	1156	1196
40°	1103	1138	1185
45°	1079	1113	1155
50°	1052	1082	1121
55°	1020	1045	1083
60°	981	994	1024
65°	935	935	945
70°	880	863	862
75°	802	755	752
80°	699	628	600
85°	554	436	341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.4
10°-20°	209.9	9.7
20°-30°	320.6	14.8
30°-40°	386.8	17.9
40°-50°	396.5	18.3
50°-60°	349.3	16.2
60°-70°	255.7	11.8
70°-80°	137.4	6.4
80°-90°	32.0	1.5
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°	603.3	27.9
0°-40°	990.1	45.8
0°-60°	1735.9	80.3
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	765	764	763	765	767	73
15°	738	738	742	748	751	208
25°	682	684	694	708	713	314
35°	599	602	618	635	640	375
45°	498	498	514	529	533	384
55°	382	380	392	400	406	341
65°	258	254	258	261	261	256
75°	136	129	128	128	127	144
85°	32	28	25	20	19	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.8	766.8	766.8	766.8	766.8
2.5°	767.7	766.3	765.0	766.3	768.1
5°	765.0	764.1	763.2	765.4	767.2
7.5°	760.9	760.0	760.5	763.6	765.0
10°	755.0	755.0	755.9	759.6	761.8
12.5°	746.9	747.4	750.1	754.6	756.8
15°	737.5	738.4	742.0	747.8	751.4
17.5°	725.8	728.0	733.0	740.2	744.2
20°	713.6	715.0	721.3	731.6	735.7
22.5°	697.8	700.5	708.6	720.8	726.2
25°	682.5	684.3	694.2	707.7	713.1
27.5°	663.1	665.8	678.0	693.8	699.6
30°	642.9	646.0	660.0	675.3	681.6
32.5°	621.7	625.8	640.2	656.4	663.1
35°	599.2	602.3	618.1	635.2	639.7
37.5°	576.6	577.5	594.2	610.9	618.1
40°	551.9	552.8	569.0	584.8	592.9
42.5°	523.9	526.6	542.4	557.7	564.0
45°	498.3	497.8	514.0	528.9	533.4
47.5°	469.4	470.3	485.2	499.6	502.3
50°	441.5	441.0	454.1	466.7	470.3
52.5°	410.9	410.4	423.5	433.8	438.3
55°	382.0	379.8	391.5	400.5	405.5
57.5°	350.9	347.8	358.2	367.2	369.4
60°	320.3	316.7	324.4	331.1	334.3
62.5°	291.0	286.5	291.5	297.3	297.8
65°	258.1	253.6	258.1	261.3	260.8
67.5°	227.1	222.1	224.4	225.7	225.3
70°	196.4	189.7	192.8	191.9	192.4
72.5°	165.8	160.4	159.9	158.6	159.9
75°	135.6	129.3	127.5	127.5	127.0
77.5°	106.8	100.5	98.7	97.8	96.4
80°	79.3	74.3	71.2	70.7	68.0
82.5°	55.9	49.6	48.7	44.6	41.9
85°	31.5	27.9	24.8	20.3	19.4
87.5°	11.7	10.4	8.1	7.7	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)