

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: P229876

Luminaire Tested: **24RLN-LD5-31-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

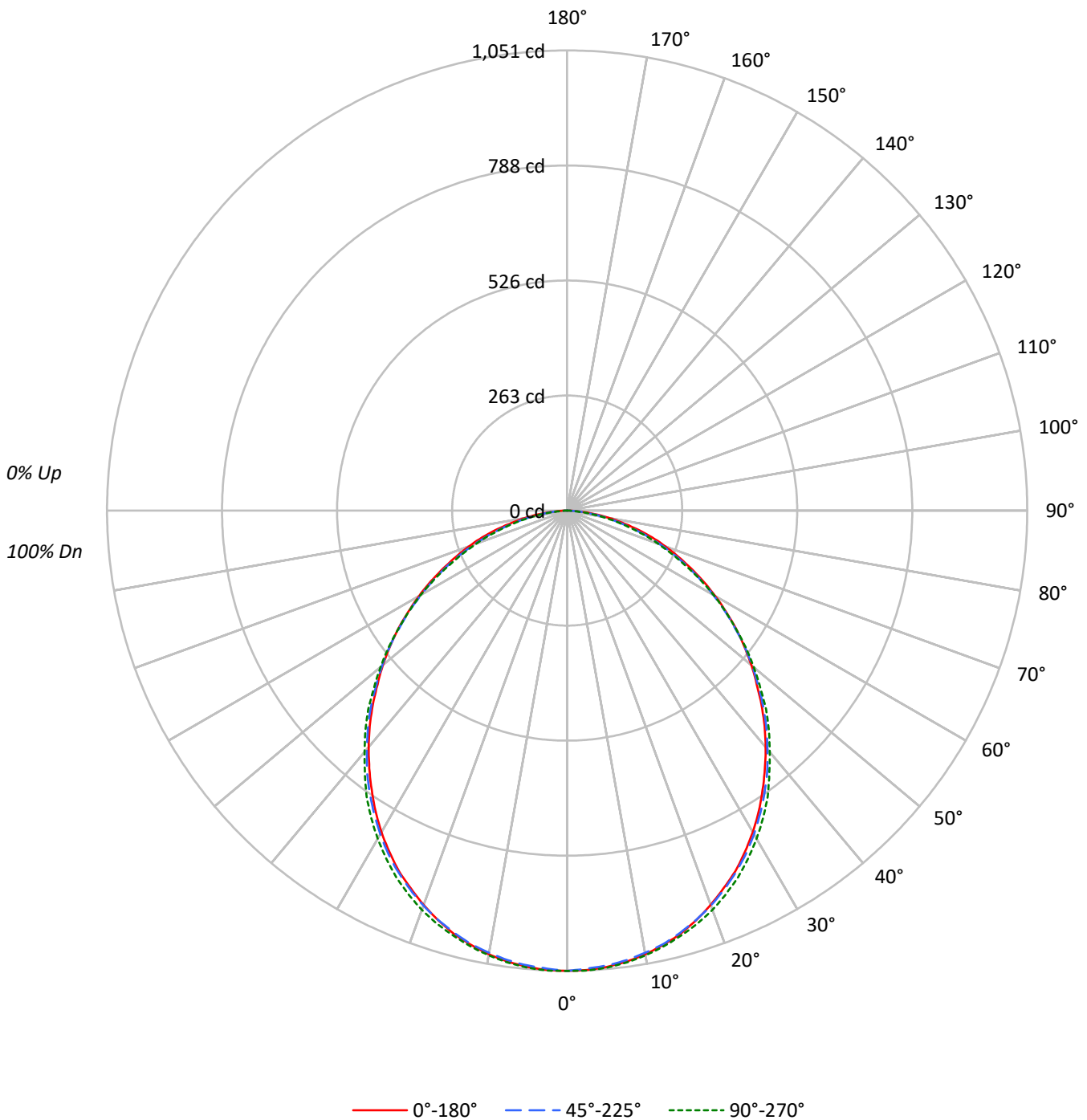
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
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	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1610	1610	1610
5°	1609	1603	1611
10°	1600	1595	1604
15°	1587	1583	1593
20°	1562	1565	1582
25°	1537	1541	1561
30°	1500	1509	1531
35°	1455	1470	1492
40°	1410	1422	1439
45°	1360	1373	1392
50°	1309	1315	1326
55°	1258	1251	1255
60°	1197	1179	1184
65°	1130	1105	1086
70°	1068	1010	987
75°	984	897	866
80°	866	759	714
85°	680	529	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.7
10°-20°	282.1	10.4
20°-30°	420.5	15.6
30°-40°	491.7	18.2
40°-50°	488.2	18.1
50°-60°	419.2	15.5
60°-70°	302.0	11.2
70°-80°	162.6	6.0
80°-90°	38.3	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°	801.9	29.7
0°-40°	1293.6	47.8
0°-60°	2201.0	81.4
0°-90°	2704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1046	1045	1043	1046	1048	99
15°	1001	998	998	1004	1005	282
25°	909	906	912	921	924	418
35°	778	778	786	795	798	487
45°	628	626	634	639	642	484
55°	471	467	468	471	470	421
65°	312	306	305	302	300	310
75°	166	156	152	147	146	176
85°	39	35	30	24	22	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1050.5	1049.6	1047.1	1050.5	1051.4
5°	1046.2	1045.3	1042.8	1046.2	1047.9
7.5°	1039.3	1037.6	1035.9	1039.3	1041.0
10°	1029.0	1027.3	1025.5	1029.8	1031.6
12.5°	1016.1	1014.3	1014.3	1017.8	1019.5
15°	1000.6	998.0	998.0	1004.0	1004.9
17.5°	980.8	979.0	979.9	986.8	989.4
20°	958.4	957.5	960.1	967.8	970.4
22.5°	933.4	932.5	936.8	946.3	948.0
25°	909.3	905.8	911.9	921.3	923.9
27.5°	879.2	876.6	884.3	892.9	895.5
30°	848.2	845.6	853.3	862.8	865.4
32.5°	814.6	812.9	820.6	830.1	832.7
35°	778.4	777.5	786.2	794.8	798.2
37.5°	742.2	741.4	750.9	757.7	758.6
40°	705.2	703.5	711.2	719.0	719.9
42.5°	667.3	664.7	673.4	679.4	682.0
45°	627.7	626.0	633.7	638.9	642.4
47.5°	587.3	587.3	591.6	597.6	598.4
50°	549.4	546.8	551.9	555.4	556.3
52.5°	509.8	507.2	511.5	512.3	514.1
55°	471.0	466.7	468.4	471.0	470.1
57.5°	430.5	423.6	427.1	427.1	428.8
60°	390.9	384.9	384.9	384.9	386.6
62.5°	351.3	345.3	345.3	344.4	343.6
65°	311.7	306.5	304.8	302.2	299.7
67.5°	273.8	267.8	264.3	260.9	258.3
70°	238.5	228.2	225.6	220.4	220.4
72.5°	203.2	192.9	187.7	184.3	183.4
75°	166.2	155.9	151.5	147.2	146.4
77.5°	130.0	123.1	116.2	112.8	111.1
80°	98.2	92.1	86.1	80.1	80.9
82.5°	67.2	61.1	56.8	51.7	49.9
85°	38.7	35.3	30.1	24.1	22.4
87.5°	16.4	12.1	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)