

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: P229916

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229916
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-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2604.0 lumens
Efficiency: N/A
Efficacy: 113.7 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

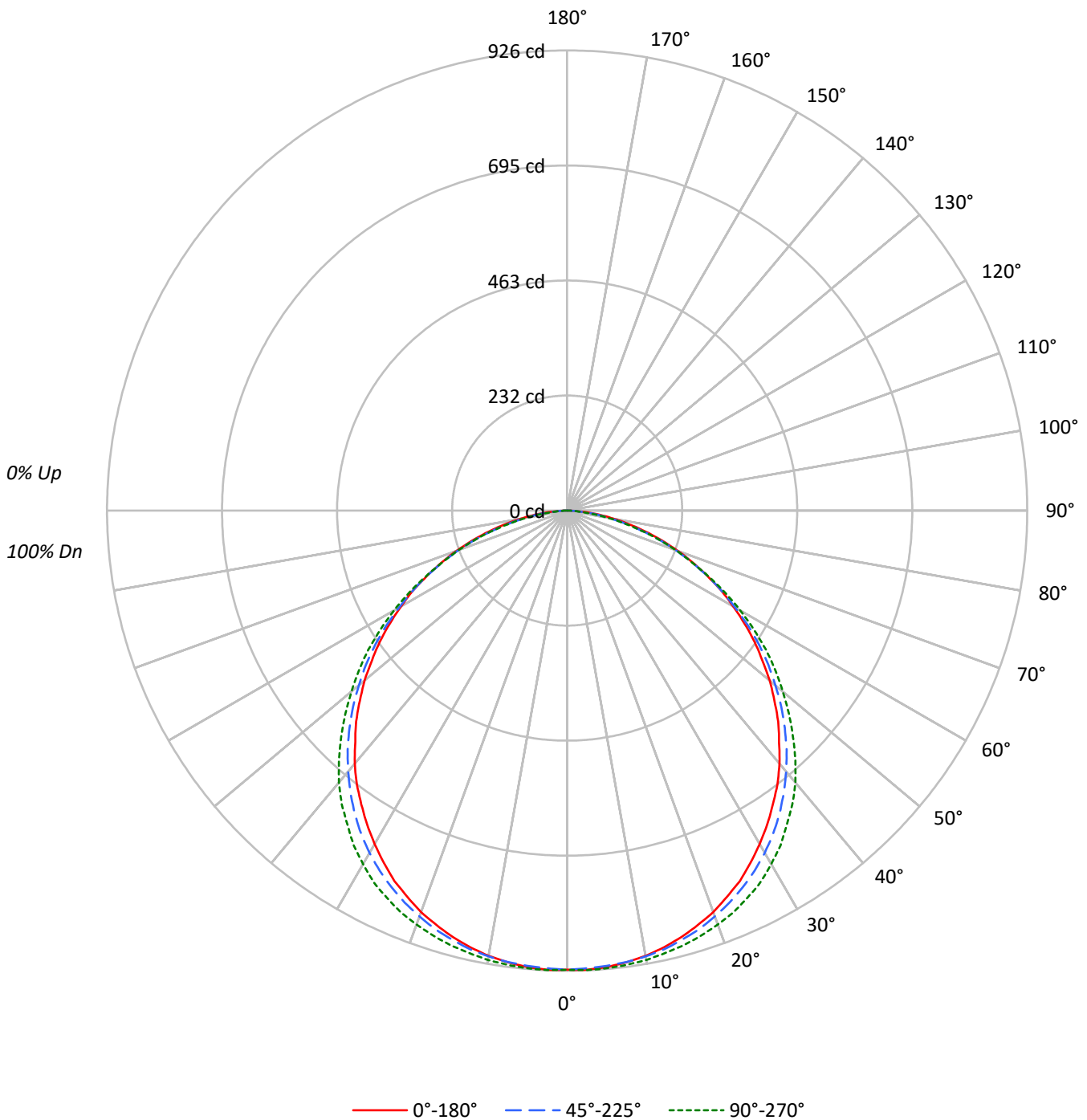
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1415	1415	1415
5°	1417	1414	1421
10°	1415	1417	1428
15°	1409	1418	1436
20°	1402	1417	1445
25°	1390	1414	1452
30°	1370	1407	1453
35°	1350	1393	1441
40°	1330	1371	1428
45°	1301	1342	1392
50°	1268	1304	1350
55°	1229	1260	1305
60°	1182	1197	1234
65°	1127	1127	1139
70°	1060	1040	1038
75°	967	909	906
80°	842	757	723
85°	668	525	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.4
10°-20°	252.9	9.7
20°-30°	386.4	14.8
30°-40°	466.1	17.9
40°-50°	477.8	18.3
50°-60°	420.9	16.2
60°-70°	308.1	11.8
70°-80°	165.6	6.4
80°-90°	38.6	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°	726.9	27.9
0°-40°	1193.1	45.8
0°-60°	2091.8	80.3
0°-90°	2604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	922	921	920	922	924	88
15°	889	890	894	901	906	251
25°	822	825	836	853	859	378
35°	722	726	745	765	771	452
45°	600	600	619	637	643	462
55°	460	458	472	483	489	411
65°	311	306	311	315	314	308
75°	163	156	154	154	153	173
85°	38	34	30	24	23	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.9	923.9	923.9	923.9	923.9
2.5°	925.0	923.4	921.8	923.4	925.6
5°	921.8	920.7	919.6	922.3	924.5
7.5°	916.9	915.8	916.3	920.1	921.8
10°	909.8	909.8	910.9	915.3	918.0
12.5°	900.1	900.6	903.9	909.3	912.0
15°	888.7	889.7	894.1	901.1	905.5
17.5°	874.5	877.3	883.2	891.9	896.8
20°	859.9	861.5	869.1	881.6	886.5
22.5°	840.9	844.1	853.9	868.6	875.1
25°	822.4	824.6	836.5	852.8	859.3
27.5°	799.1	802.3	817.0	836.0	843.1
30°	774.7	778.5	795.3	813.7	821.3
32.5°	749.1	754.0	771.4	790.9	799.1
35°	722.0	725.8	744.8	765.4	770.9
37.5°	694.9	695.9	716.0	736.1	744.8
40°	665.0	666.1	685.6	704.6	714.4
42.5°	631.3	634.6	653.6	672.1	679.7
45°	600.4	599.9	619.4	637.3	642.7
47.5°	565.7	566.7	584.7	602.0	605.3
50°	532.0	531.5	547.2	562.4	566.7
52.5°	495.1	494.5	510.3	522.8	528.2
55°	460.3	457.6	471.7	482.6	488.6
57.5°	422.9	419.1	431.6	442.4	445.1
60°	386.0	381.6	390.9	399.0	402.8
62.5°	350.7	345.3	351.2	358.3	358.8
65°	311.1	305.6	311.1	314.9	314.3
67.5°	273.6	267.6	270.3	272.0	271.4
70°	236.7	228.5	232.3	231.3	231.8
72.5°	199.8	193.3	192.7	191.1	192.7
75°	163.4	155.8	153.6	153.6	153.1
77.5°	128.7	121.1	118.9	117.8	116.2
80°	95.5	89.6	85.8	85.2	82.0
82.5°	67.3	59.7	58.6	53.7	50.5
85°	38.0	33.7	29.9	24.4	23.3
87.5°	14.1	12.5	9.8	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)