

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: P229946

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229946
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-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

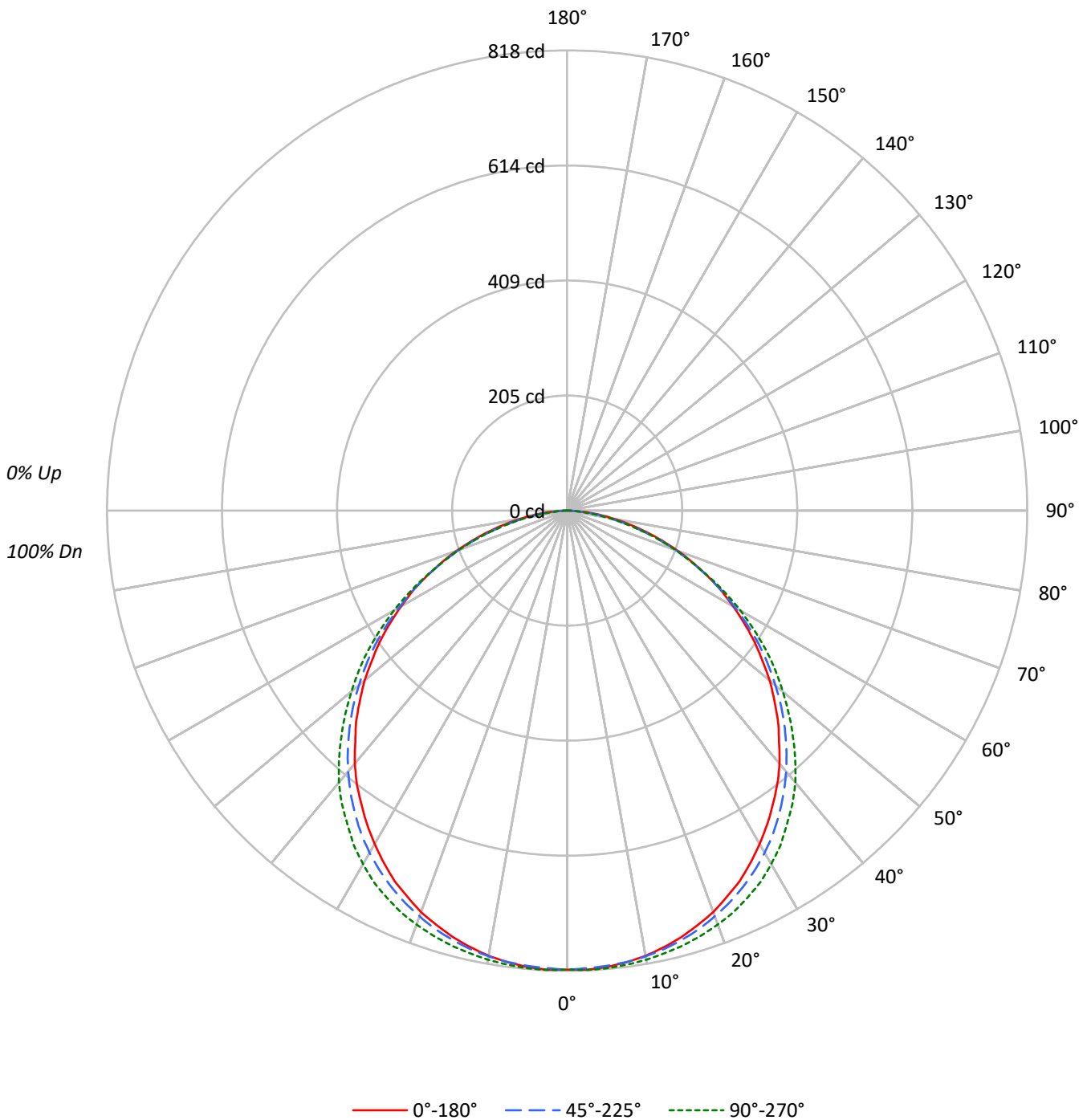
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229946

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229946

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U

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°	1250	1250	1250
5°	1252	1249	1256
10°	1250	1251	1261
15°	1245	1252	1268
20°	1238	1251	1276
25°	1228	1249	1283
30°	1210	1242	1283
35°	1192	1230	1273
40°	1174	1211	1262
45°	1149	1185	1230
50°	1120	1152	1193
55°	1086	1113	1152
60°	1044	1057	1090
65°	996	996	1006
70°	936	919	917
75°	854	803	800
80°	744	669	639
85°	590	464	362



TEST NUMBER: P229946

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.4
10°-20°	223.4	9.7
20°-30°	341.3	14.8
30°-40°	411.7	17.9
40°-50°	422.0	18.3
50°-60°	371.8	16.2
60°-70°	272.1	11.8
70°-80°	146.2	6.4
80°-90°	34.1	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°	642.1	27.9
0°-40°	1053.8	45.8
0°-60°	1847.6	80.3
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	814	813	812	815	817	77
15°	785	786	790	796	800	221
25°	726	728	739	753	759	334
35°	638	641	658	676	681	399
45°	530	530	547	563	568	408
55°	407	404	417	426	432	363
65°	275	270	275	278	278	272
75°	144	138	136	136	135	153
85°	34	30	26	22	21	40
90°	0	0	0	0	0	



TEST NUMBER: P229946

CATALOG NUMBER: 24RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.1	816.1	816.1	816.1	816.1
2.5°	817.0	815.6	814.2	815.6	817.5
5°	814.2	813.2	812.2	814.6	816.6
7.5°	809.8	808.9	809.4	812.7	814.2
10°	803.6	803.6	804.6	808.4	810.8
12.5°	795.0	795.5	798.3	803.1	805.5
15°	784.9	785.9	789.7	795.9	799.8
17.5°	772.4	774.8	780.1	787.8	792.1
20°	759.5	760.9	767.7	778.7	783.0
22.5°	742.7	745.6	754.2	767.2	772.9
25°	726.4	728.3	738.9	753.3	759.0
27.5°	705.8	708.7	721.6	738.4	744.6
30°	684.2	687.6	702.4	718.7	725.5
32.5°	661.7	666.0	681.3	698.6	705.8
35°	637.7	641.1	657.8	676.1	680.9
37.5°	613.7	614.7	632.4	650.2	657.8
40°	587.4	588.3	605.6	622.4	631.0
42.5°	557.6	560.5	577.3	593.6	600.3
45°	530.3	529.8	547.1	562.9	567.7
47.5°	499.6	500.6	516.4	531.7	534.6
50°	469.9	469.4	483.3	496.7	500.6
52.5°	437.3	436.8	450.7	461.7	466.5
55°	406.6	404.2	416.7	426.3	431.5
57.5°	373.5	370.2	381.2	390.8	393.2
60°	340.9	337.1	345.2	352.4	355.8
62.5°	309.7	305.0	310.2	316.5	316.9
65°	274.7	269.9	274.7	278.1	277.6
67.5°	241.7	236.4	238.8	240.2	239.7
70°	209.1	201.9	205.2	204.3	204.7
72.5°	176.4	170.7	170.2	168.8	170.2
75°	144.3	137.6	135.7	135.7	135.2
77.5°	113.6	106.9	105.0	104.0	102.6
80°	84.4	79.1	75.8	75.3	72.4
82.5°	59.5	52.7	51.8	47.5	44.6
85°	33.6	29.7	26.4	21.6	20.6
87.5°	12.5	11.0	8.6	8.2	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)