

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: P229557

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

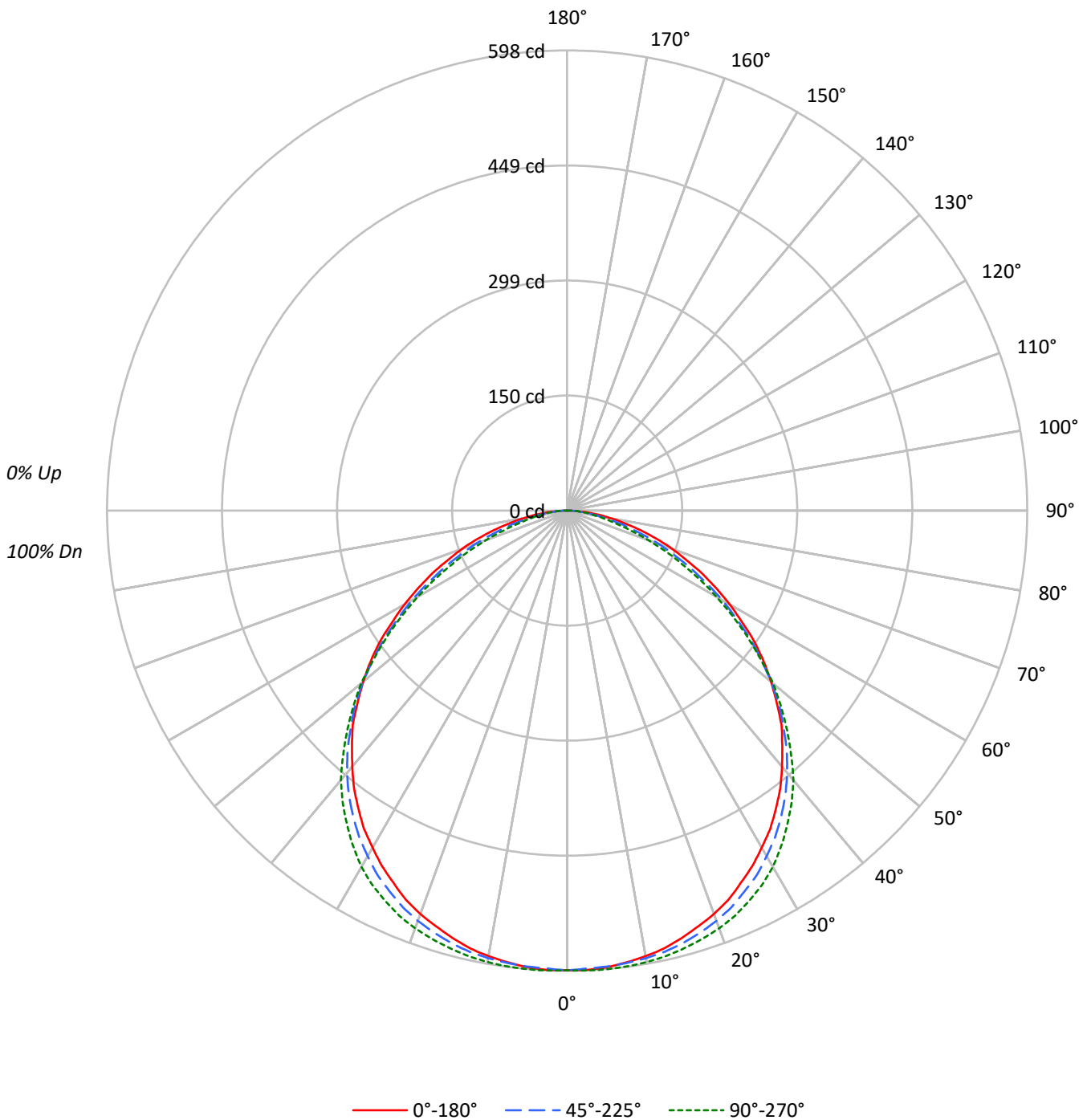
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229557

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L930-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229557

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L930-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	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	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	2015	2012	2024
10°	2012	2020	2038
15°	2006	2030	2054
20°	2001	2035	2072
25°	1985	2030	2081
30°	1967	2017	2080
35°	1945	1995	2051
40°	1910	1956	2012
45°	1878	1894	1927
50°	1813	1813	1831
55°	1745	1704	1679
60°	1643	1568	1510
65°	1540	1410	1314
70°	1430	1243	1099
75°	1285	1051	871
80°	1116	817	733
85°	963	696	696



TEST NUMBER: P229557

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L930-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.5
10°-20°	164.4	10.1
20°-30°	252.1	15.5
30°-40°	303.6	18.6
40°-50°	306.8	18.8
50°-60°	258.9	15.9
60°-70°	176.0	10.8
70°-80°	87.2	5.4
80°-90°	22.3	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°	473.3	29.1
0°-40°	776.9	47.7
0°-60°	1342.5	82.5
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	596	596	595	597	598	57
15°	575	578	582	587	589	162
25°	534	538	546	557	560	246
35°	473	476	485	496	499	296
45°	394	391	397	404	404	302
55°	297	291	290	288	286	265
65°	193	184	177	168	165	191
75°	99	91	81	70	67	105
85°	25	19	18	18	18	28
90°	0	0	0	0	0	



TEST NUMBER: P229557

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L930-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.4	597.4	597.4	597.4	597.4
2.5°	597.4	597.4	595.7	598.3	598.3
5°	595.7	595.7	594.8	597.4	598.3
7.5°	592.2	593.1	593.1	596.5	597.4
10°	588.0	588.8	590.5	594.8	595.7
12.5°	582.8	584.5	587.1	591.4	593.1
15°	575.1	577.7	581.9	587.1	588.8
17.5°	566.5	569.9	575.1	581.9	583.7
20°	557.9	560.5	567.4	575.1	577.7
22.5°	547.6	551.0	557.9	566.5	569.9
25°	533.9	538.2	545.9	557.1	559.6
27.5°	521.0	525.3	533.9	545.0	548.5
30°	505.6	510.7	518.4	530.4	534.7
32.5°	491.0	493.5	503.0	514.1	517.6
35°	472.9	476.4	485.0	496.1	498.7
37.5°	454.9	457.5	466.1	476.4	478.9
40°	434.3	436.9	444.6	454.9	457.5
42.5°	413.7	415.4	422.3	430.9	430.9
45°	394.0	391.4	397.4	404.3	404.3
47.5°	369.1	369.1	373.4	376.8	376.8
50°	345.9	344.2	345.9	347.6	349.3
52.5°	321.9	318.4	317.6	317.6	316.7
55°	297.0	291.0	290.1	287.5	285.8
57.5°	269.5	265.2	260.1	256.6	254.9
60°	243.8	236.0	232.6	226.6	224.0
62.5°	218.0	211.1	203.4	197.4	194.8
65°	193.1	183.7	176.8	168.2	164.8
67.5°	167.4	158.8	150.2	142.5	139.0
70°	145.1	134.8	126.2	115.0	111.6
72.5°	121.9	112.4	102.1	91.8	87.5
75°	98.7	91.0	80.7	70.4	66.9
77.5°	77.2	70.4	60.1	51.5	50.6
80°	57.5	51.5	42.1	38.6	37.8
82.5°	41.2	34.3	28.3	27.5	27.5
85°	24.9	18.9	18.0	18.0	18.0
87.5°	9.4	8.6	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)