

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: P229630

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2722.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

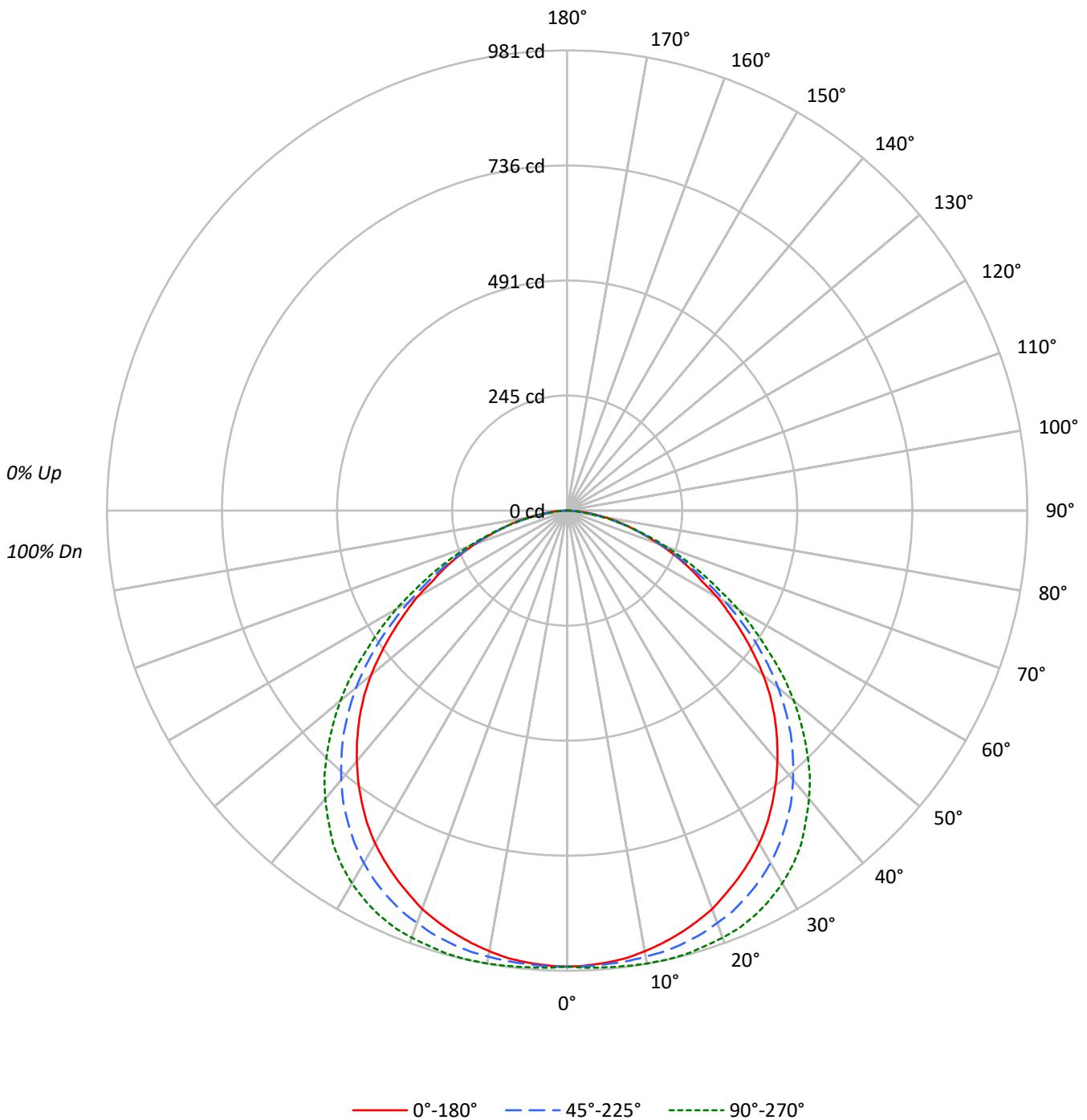
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229630

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229630

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L930-CD1-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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
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	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3114	3114	3114
5°	3110	3120	3142
10°	3102	3140	3189
15°	3091	3169	3246
20°	3081	3189	3302
25°	3053	3206	3359
30°	3029	3208	3393
35°	2981	3183	3398
40°	2916	3132	3355
45°	2835	3054	3273
50°	2721	2928	3144
55°	2547	2742	2928
60°	2367	2495	2698
65°	2170	2246	2397
70°	1965	1995	2089
75°	1731	1689	1751
80°	1505	1381	1321
85°	1224	919	794



TEST NUMBER: P229630

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.4
10°-20°	270.0	9.9
20°-30°	418.3	15.4
30°-40°	509.0	18.7
40°-50°	518.5	19.0
50°-60°	437.2	16.1
60°-70°	295.8	10.9
70°-80°	147.8	5.4
80°-90°	32.9	1.2
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°	780.8	28.7
0°-40°	1289.9	47.4
0°-60°	2245.6	82.5
0°-90°	2722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	967	969	971	976	977	92
15°	932	939	956	972	979	263
25°	864	877	907	937	951	398
35°	762	779	814	852	869	477
45°	626	638	674	709	723	482
55°	456	463	491	514	524	408
65°	286	281	296	310	316	283
75°	140	135	136	138	142	150
85°	33	28	25	22	22	39
90°	0	0	0	0	0	



TEST NUMBER: P229630

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	970.6	970.6	972.3	974.0	975.6
5°	967.3	969.0	970.6	975.6	977.3
7.5°	962.3	964.0	969.0	975.6	979.0
10°	954.0	957.3	965.6	975.6	980.6
12.5°	944.0	949.0	962.3	974.0	980.6
15°	932.3	939.0	955.7	972.3	979.0
17.5°	919.0	927.4	947.3	965.6	974.0
20°	904.0	914.0	935.7	959.0	969.0
22.5°	884.1	897.4	924.0	950.7	962.3
25°	864.1	877.4	907.4	937.3	950.7
27.5°	842.4	857.4	889.1	922.4	935.7
30°	819.1	832.5	867.4	902.4	917.4
32.5°	792.5	805.8	842.4	879.1	895.7
35°	762.5	779.2	814.1	852.4	869.1
37.5°	730.9	745.9	784.2	820.8	835.8
40°	697.6	712.6	749.2	787.5	802.5
42.5°	662.6	677.6	712.6	749.2	765.9
45°	626.0	637.7	674.3	709.3	722.6
47.5°	587.7	596.0	631.0	664.3	677.6
50°	546.1	554.4	587.7	617.7	631.0
52.5°	501.1	507.8	539.4	566.1	581.1
55°	456.2	462.8	491.1	514.5	524.4
57.5°	411.2	414.6	439.5	462.8	472.8
60°	369.6	369.6	389.6	407.9	421.2
62.5°	321.3	326.3	341.3	359.6	364.6
65°	286.4	281.4	296.4	309.7	316.3
67.5°	246.4	243.1	253.1	264.7	268.1
70°	209.8	204.8	213.1	219.8	223.1
72.5°	171.5	169.8	173.2	178.1	179.8
75°	139.9	134.9	136.5	138.2	141.5
77.5°	111.5	103.2	104.9	103.2	104.9
80°	81.6	74.9	74.9	73.3	71.6
82.5°	54.9	51.6	48.3	45.0	43.3
85°	33.3	28.3	25.0	21.6	21.6
87.5°	13.3	10.0	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)