

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: P229702

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2622.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

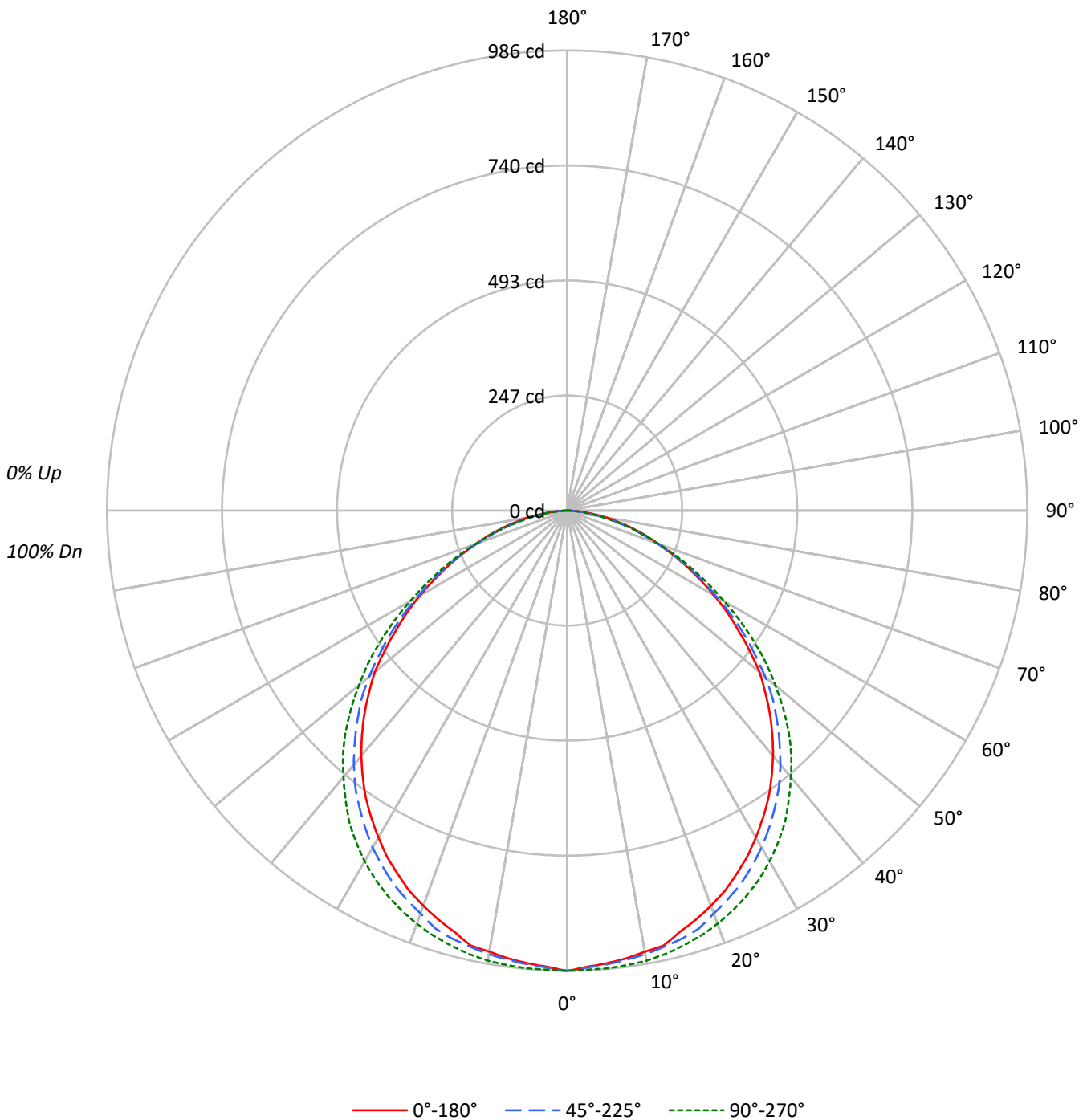
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3159	3159	3159
5°	3131	3138	3166
10°	3122	3139	3185
15°	3098	3149	3198
20°	3071	3131	3211
25°	3036	3115	3217
30°	2991	3082	3208
35°	2940	3034	3183
40°	2869	2972	3118
45°	2781	2880	3041
50°	2681	2758	2901
55°	2503	2585	2728
60°	2329	2374	2488
65°	2133	2151	2239
70°	1931	1902	1953
75°	1766	1641	1659
80°	1573	1344	1302
85°	1253	911	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.5
10°-20°	267.8	10.2
20°-30°	407.0	15.5
30°-40°	487.1	18.6
40°-50°	491.9	18.8
50°-60°	415.0	15.8
60°-70°	283.3	10.8
70°-80°	143.7	5.5
80°-90°	33.1	1.3
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°	767.8	29.3
0°-40°	1254.9	47.9
0°-60°	2161.8	82.4
0°-90°	2622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	974	974	976	981	985	93
15°	934	938	950	957	964	264
25°	859	867	882	900	910	396
35°	752	758	776	800	814	470
45°	614	617	636	661	672	473
55°	448	447	463	480	488	402
65°	282	278	284	289	295	280
75°	143	134	133	132	134	151
85°	34	30	25	22	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.3	986.3	986.3	986.3	986.3
2.5°	978.5	978.5	980.1	985.5	984.7
5°	973.8	973.8	976.2	980.8	984.7
7.5°	967.6	968.4	970.7	977.7	982.4
10°	959.9	960.7	965.3	972.3	979.3
12.5°	954.5	955.2	957.6	966.1	973.1
15°	934.3	938.2	949.8	956.8	964.5
17.5°	918.8	923.5	939.0	945.2	954.5
20°	901.0	906.4	918.8	932.8	942.1
22.5°	882.4	888.6	901.0	917.2	927.3
25°	859.1	866.9	881.6	900.2	910.3
27.5°	835.8	843.6	858.3	883.9	890.9
30°	808.7	817.2	833.5	858.3	867.6
32.5°	780.8	788.5	805.6	831.2	842.0
35°	752.1	758.3	776.1	800.2	814.1
37.5°	719.5	725.7	745.9	769.2	780.0
40°	686.2	690.8	711.0	734.3	745.9
42.5°	650.5	655.2	673.8	697.8	711.0
45°	614.1	617.2	635.8	660.6	671.5
47.5°	575.3	578.4	597.8	618.0	628.0
50°	538.1	536.5	553.6	572.2	582.3
52.5°	492.4	493.1	507.9	525.7	537.3
55°	448.2	447.4	462.9	479.9	488.5
57.5°	407.1	404.0	417.1	428.8	438.9
60°	363.6	360.5	370.6	383.0	388.5
62.5°	321.8	317.9	328.0	335.0	340.4
65°	281.5	277.6	283.8	289.2	295.4
67.5°	243.5	238.8	244.2	247.3	252.0
70°	206.2	202.4	203.1	207.0	208.6
72.5°	174.5	166.7	167.5	167.5	169.8
75°	142.7	134.1	132.6	131.8	134.1
77.5°	110.9	103.9	101.6	100.8	100.8
80°	85.3	76.0	72.9	70.6	70.6
82.5°	55.8	52.7	47.3	44.2	42.6
85°	34.1	29.5	24.8	22.5	21.7
87.5°	13.2	10.9	9.3	9.3	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)