

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: P229709

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229709  
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-LD5-44-RDP-UNV-L935-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2970.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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

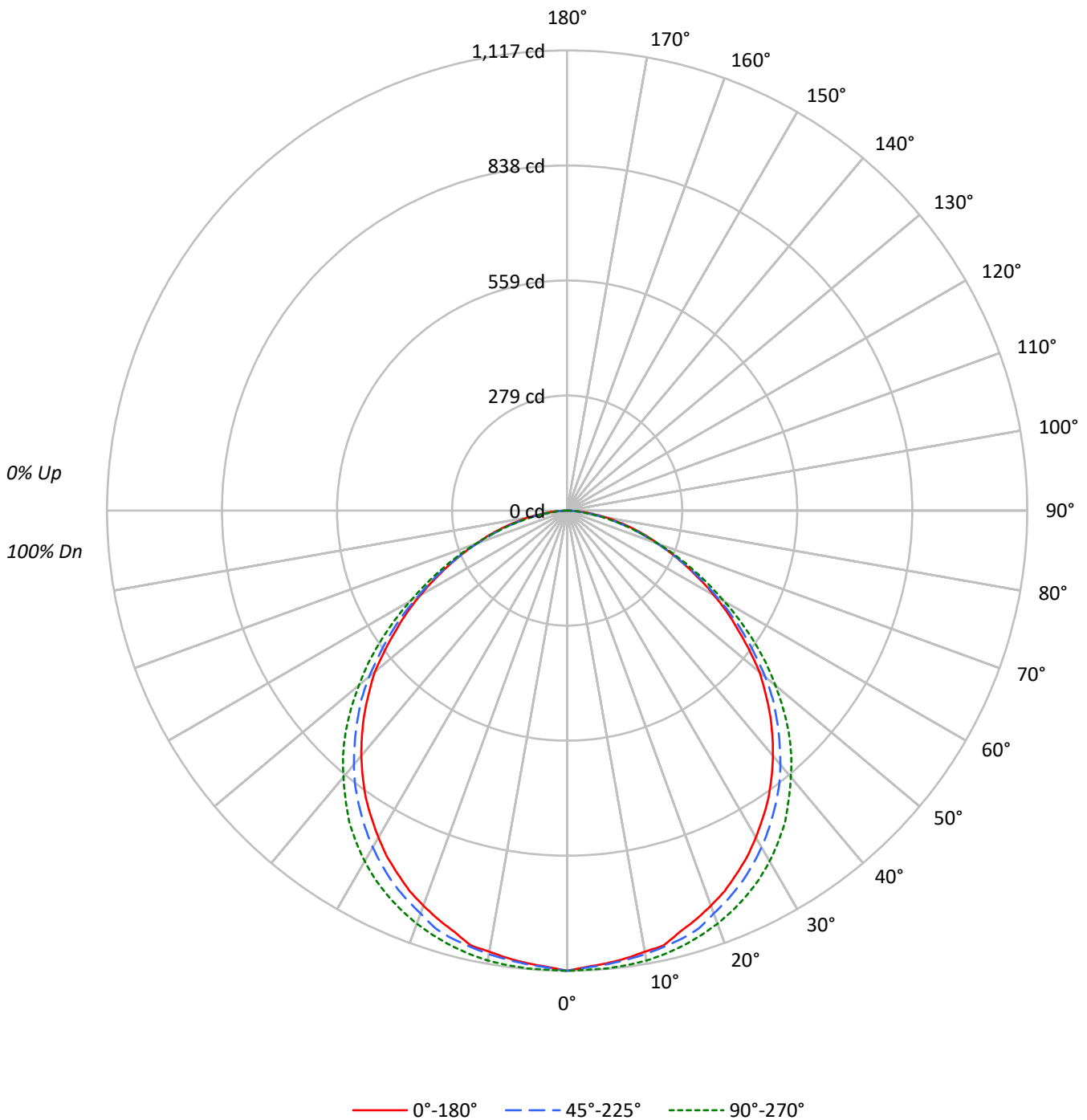
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3578	3578	3578
5°	3546	3555	3586
10°	3536	3556	3607
15°	3509	3567	3623
20°	3478	3547	3637
25°	3439	3529	3644
30°	3387	3491	3634
35°	3331	3437	3605
40°	3250	3367	3532
45°	3150	3262	3445
50°	3037	3124	3286
55°	2834	2927	3089
60°	2638	2689	2818
65°	2416	2436	2536
70°	2187	2155	2213
75°	2000	1859	1880
80°	1782	1523	1474
85°	1418	1033	904



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	3.5
10°-20°	303.3	10.2
20°-30°	461.0	15.5
30°-40°	551.7	18.6
40°-50°	557.2	18.8
50°-60°	470.1	15.8
60°-70°	320.9	10.8
70°-80°	162.8	5.5
80°-90°	37.5	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°	869.7	29.3
0°-40°	1421.4	47.9
0°-60°	2448.7	82.4
0°-90°	2970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2970.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1103	1103	1106	1111	1115	105
15°	1058	1063	1076	1084	1093	299
25°	973	982	999	1020	1031	448
35°	852	859	879	906	922	532
45°	696	699	720	748	761	536
55°	508	507	524	544	553	455
65°	319	314	321	328	335	317
75°	162	152	150	149	152	171
85°	39	33	28	26	25	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1108.4	1108.4	1110.1	1116.3	1115.4
5°	1103.1	1103.1	1105.7	1111.0	1115.4
7.5°	1096.1	1097.0	1099.6	1107.5	1112.8
10°	1087.3	1088.2	1093.4	1101.3	1109.2
12.5°	1081.1	1082.0	1084.7	1094.3	1102.2
15°	1058.3	1062.7	1075.9	1083.8	1092.6
17.5°	1040.7	1046.0	1063.6	1070.6	1081.1
20°	1020.5	1026.7	1040.7	1056.6	1067.1
22.5°	999.5	1006.5	1020.5	1039.0	1050.4
25°	973.1	981.9	998.6	1019.7	1031.1
27.5°	946.8	955.6	972.2	1001.2	1009.1
30°	916.0	925.7	944.1	972.2	982.8
32.5°	884.4	893.2	912.5	941.5	953.8
35°	851.9	858.9	879.1	906.4	922.2
37.5°	815.0	822.1	844.9	871.2	883.5
40°	777.3	782.5	805.4	831.7	844.9
42.5°	736.9	742.1	763.2	790.4	805.4
45°	695.6	699.1	720.2	748.3	760.6
47.5°	651.7	655.2	677.1	700.0	711.4
50°	609.5	607.8	627.1	648.2	659.6
52.5°	557.7	558.6	575.3	595.5	608.6
55°	507.6	506.8	524.3	543.6	553.3
57.5°	461.1	457.6	472.5	485.7	497.1
60°	411.9	408.4	419.8	433.9	440.0
62.5°	364.5	360.1	371.5	379.4	385.6
65°	318.8	314.4	321.4	327.6	334.6
67.5°	275.8	270.5	276.7	280.2	285.4
70°	233.6	229.2	230.1	234.5	236.3
72.5°	197.6	188.8	189.7	189.7	192.3
75°	161.6	151.9	150.2	149.3	151.9
77.5°	125.6	117.7	115.1	114.2	114.2
80°	96.6	86.1	82.6	79.9	79.9
82.5°	63.2	59.7	53.6	50.1	48.3
85°	38.6	33.4	28.1	25.5	24.6
87.5°	14.9	12.3	10.5	10.5	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)