

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: P229708

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229708  
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-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: 2720.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 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

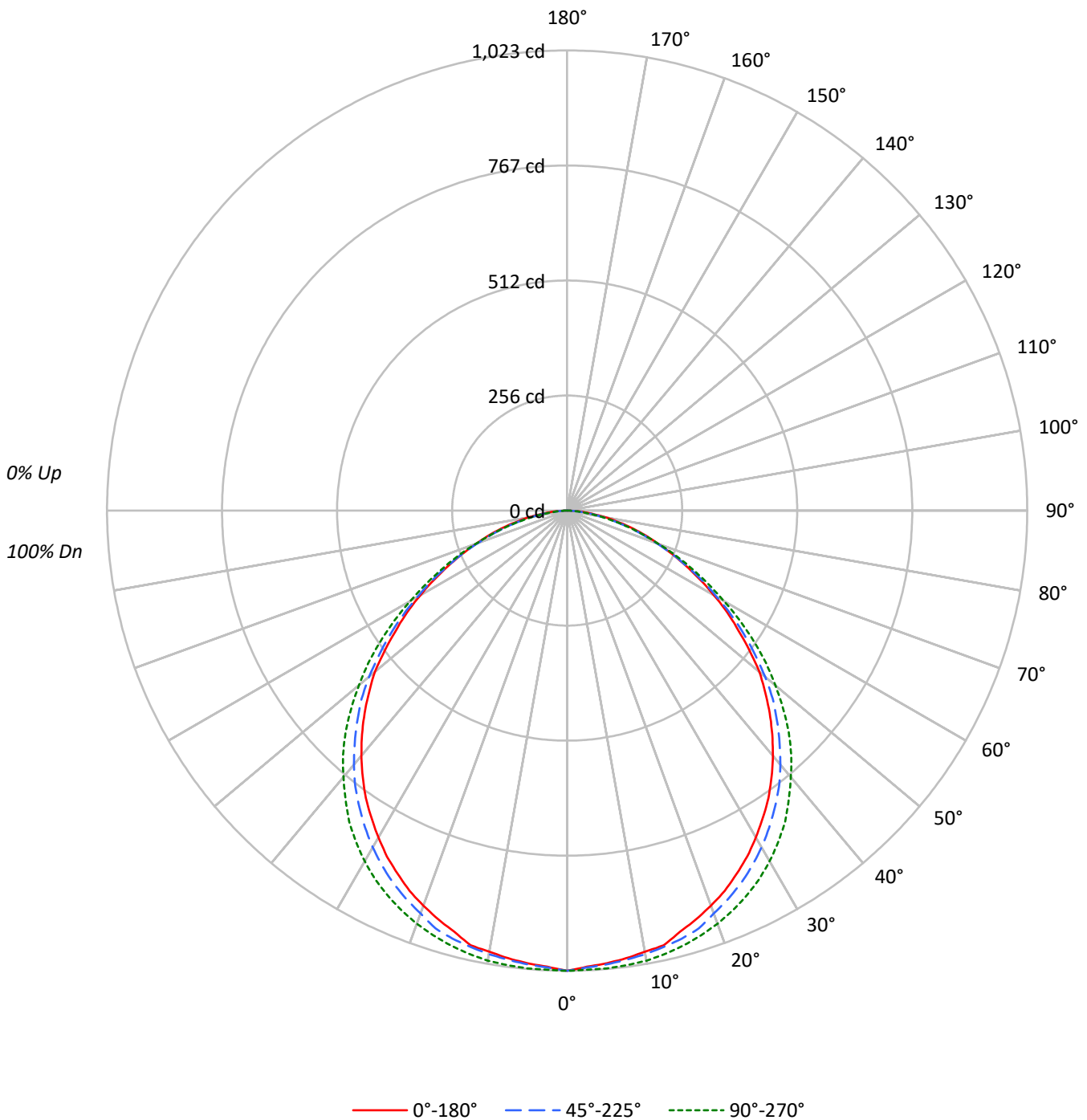
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3277	3277	3277
5°	3248	3256	3284
10°	3238	3257	3304
15°	3213	3267	3318
20°	3185	3248	3331
25°	3149	3232	3337
30°	3102	3198	3329
35°	3050	3148	3302
40°	2976	3084	3235
45°	2885	2987	3155
50°	2781	2861	3010
55°	2596	2681	2829
60°	2416	2463	2581
65°	2213	2231	2323
70°	2004	1973	2026
75°	1831	1701	1722
80°	1632	1394	1350
85°	1301	944	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	3.5
10°-20°	277.8	10.2
20°-30°	422.2	15.5
30°-40°	505.3	18.6
40°-50°	510.3	18.8
50°-60°	430.5	15.8
60°-70°	293.9	10.8
70°-80°	149.1	5.5
80°-90°	34.4	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°	796.5	29.3
0°-40°	1301.8	47.9
0°-60°	2242.6	82.4
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1010	1010	1013	1018	1022	96
15°	969	973	985	993	1001	274
25°	891	899	914	934	944	411
35°	780	787	805	830	845	487
45°	637	640	660	685	697	491
55°	465	464	480	498	507	417
65°	292	288	294	300	306	290
75°	148	139	138	137	139	157
85°	35	31	26	23	22	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1023.1	1023.1	1023.1	1023.1	1023.1
2.5°	1015.1	1015.1	1016.7	1022.3	1021.5
5°	1010.2	1010.2	1012.7	1017.5	1021.5
7.5°	1003.8	1004.6	1007.0	1014.3	1019.1
10°	995.8	996.6	1001.4	1008.6	1015.9
12.5°	990.1	990.9	993.4	1002.2	1009.4
15°	969.2	973.2	985.3	992.6	1000.6
17.5°	953.1	958.0	974.1	980.5	990.1
20°	934.6	940.3	953.1	967.6	977.3
22.5°	915.3	921.8	934.6	951.5	962.0
25°	891.2	899.2	914.5	933.8	944.3
27.5°	867.1	875.1	890.4	916.9	924.2
30°	838.9	847.8	864.7	890.4	900.1
32.5°	810.0	818.0	835.7	862.3	873.5
35°	780.2	786.6	805.1	830.1	844.6
37.5°	746.4	752.9	773.8	797.9	809.2
40°	711.8	716.7	737.6	761.7	773.8
42.5°	674.8	679.7	699.0	723.9	737.6
45°	637.0	640.3	659.6	685.3	696.6
47.5°	596.8	600.0	620.1	641.1	651.5
50°	558.2	556.6	574.3	593.6	604.1
52.5°	510.8	511.6	526.8	545.3	557.4
55°	464.9	464.1	480.2	497.9	506.7
57.5°	422.3	419.1	432.7	444.8	455.3
60°	377.2	374.0	384.5	397.3	403.0
62.5°	333.8	329.8	340.2	347.5	353.1
65°	292.0	288.0	294.4	300.0	306.5
67.5°	252.6	247.7	253.4	256.6	261.4
70°	214.0	209.9	210.7	214.8	216.4
72.5°	181.0	172.9	173.7	173.7	176.1
75°	148.0	139.2	137.5	136.7	139.2
77.5°	115.0	107.8	105.4	104.6	104.6
80°	88.5	78.8	75.6	73.2	73.2
82.5°	57.9	54.7	49.1	45.8	44.2
85°	35.4	30.6	25.7	23.3	22.5
87.5°	13.7	11.3	9.7	9.7	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)