

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: P229695

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229695  
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-LD5-35-RDP-UNV-L840-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2780.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

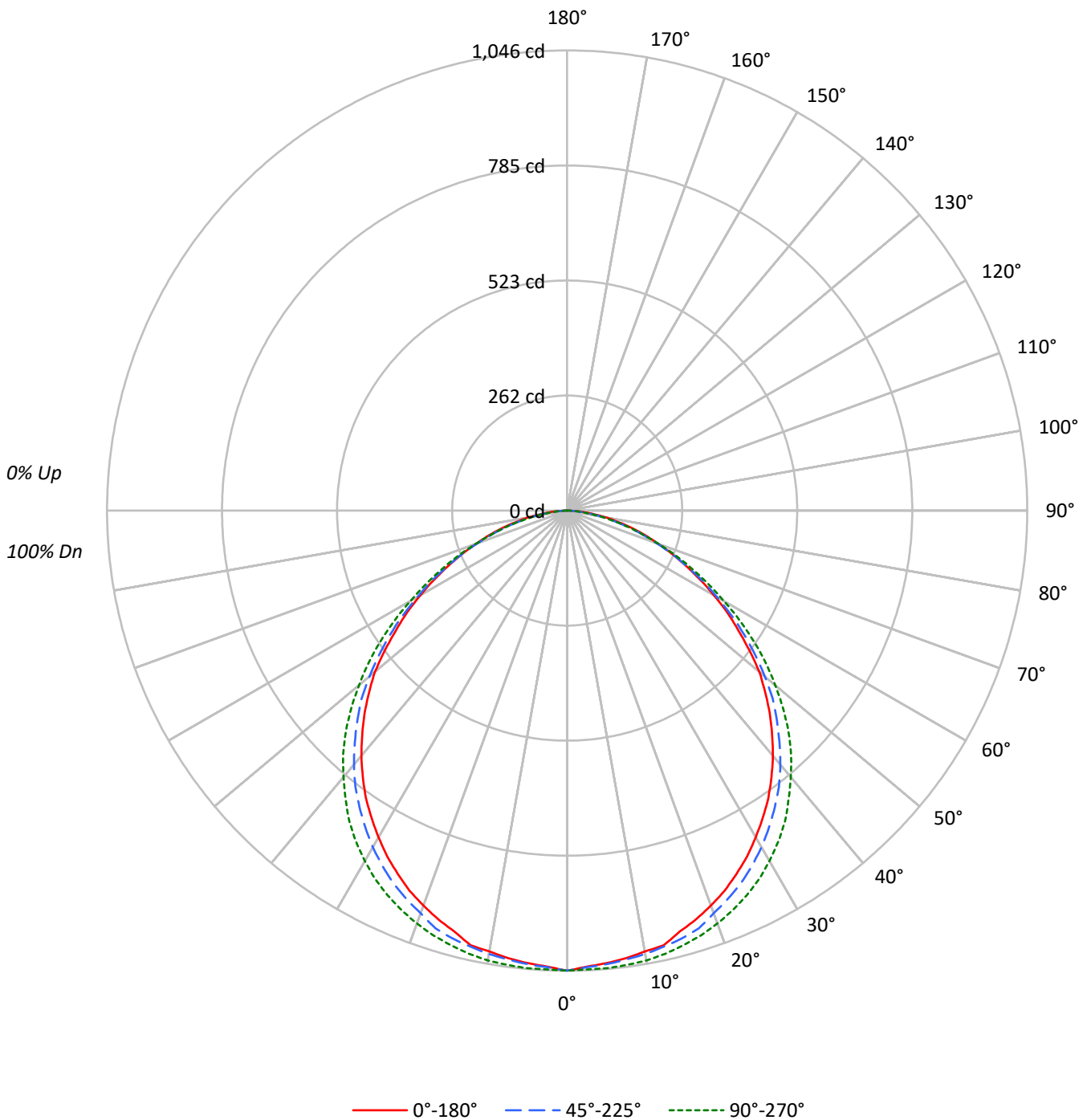
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3349	3349	3349
5°	3319	3327	3356
10°	3310	3328	3377
15°	3284	3339	3391
20°	3256	3320	3404
25°	3219	3303	3410
30°	3171	3268	3402
35°	3118	3217	3375
40°	3041	3151	3306
45°	2949	3053	3224
50°	2842	2925	3076
55°	2653	2740	2892
60°	2470	2517	2638
65°	2261	2280	2373
70°	2048	2017	2070
75°	1872	1740	1760
80°	1667	1426	1380
85°	1330	966	845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.5
10°-20°	283.9	10.2
20°-30°	431.5	15.5
30°-40°	516.4	18.6
40°-50°	521.6	18.8
50°-60°	440.0	15.8
60°-70°	300.4	10.8
70°-80°	152.4	5.5
80°-90°	35.1	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°	814.1	29.3
0°-40°	1330.5	47.9
0°-60°	2292.1	82.4
0°-90°	2780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1032	1032	1035	1040	1044	98
15°	991	995	1007	1014	1023	280
25°	911	919	935	954	965	420
35°	797	804	823	848	863	498
45°	651	654	674	700	712	502
55°	475	474	491	509	518	426
65°	298	294	301	307	313	297
75°	151	142	141	140	142	160
85°	36	31	26	24	23	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1037.5	1037.5	1039.1	1044.9	1044.0
5°	1032.5	1032.5	1035.0	1039.9	1044.0
7.5°	1026.0	1026.8	1029.2	1036.6	1041.6
10°	1017.7	1018.6	1023.5	1030.9	1038.3
12.5°	1012.0	1012.8	1015.3	1024.3	1031.7
15°	990.6	994.7	1007.0	1014.4	1022.7
17.5°	974.2	979.1	995.5	1002.1	1012.0
20°	955.3	961.0	974.2	989.0	998.8
22.5°	935.5	942.1	955.3	972.5	983.2
25°	910.9	919.1	934.7	954.4	965.1
27.5°	886.2	894.4	910.0	937.2	944.6
30°	857.4	866.5	883.7	910.0	919.9
32.5°	827.8	836.1	854.1	881.3	892.8
35°	797.4	804.0	822.9	848.4	863.2
37.5°	762.9	769.5	790.8	815.5	827.0
40°	727.5	732.5	753.8	778.5	790.8
42.5°	689.7	694.7	714.4	739.9	753.8
45°	651.1	654.4	674.1	700.4	711.9
47.5°	610.0	613.3	633.8	655.2	665.9
50°	570.5	568.9	587.0	606.7	617.4
52.5°	522.0	522.8	538.5	557.4	569.7
55°	475.2	474.3	490.8	508.9	517.9
57.5°	431.6	428.3	442.3	454.6	465.3
60°	385.6	382.3	393.0	406.1	411.9
62.5°	341.2	337.1	347.7	355.1	360.9
65°	298.4	294.3	300.9	306.6	313.2
67.5°	258.1	253.2	259.0	262.2	267.2
70°	218.7	214.6	215.4	219.5	221.1
72.5°	185.0	176.7	177.6	177.6	180.0
75°	151.3	142.2	140.6	139.8	142.2
77.5°	117.6	110.2	107.7	106.9	106.9
80°	90.4	80.6	77.3	74.8	74.8
82.5°	59.2	55.9	50.1	46.9	45.2
85°	36.2	31.2	26.3	23.8	23.0
87.5°	14.0	11.5	9.9	9.9	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)