

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: P229715

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229715  
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-L940-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (126)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3047.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

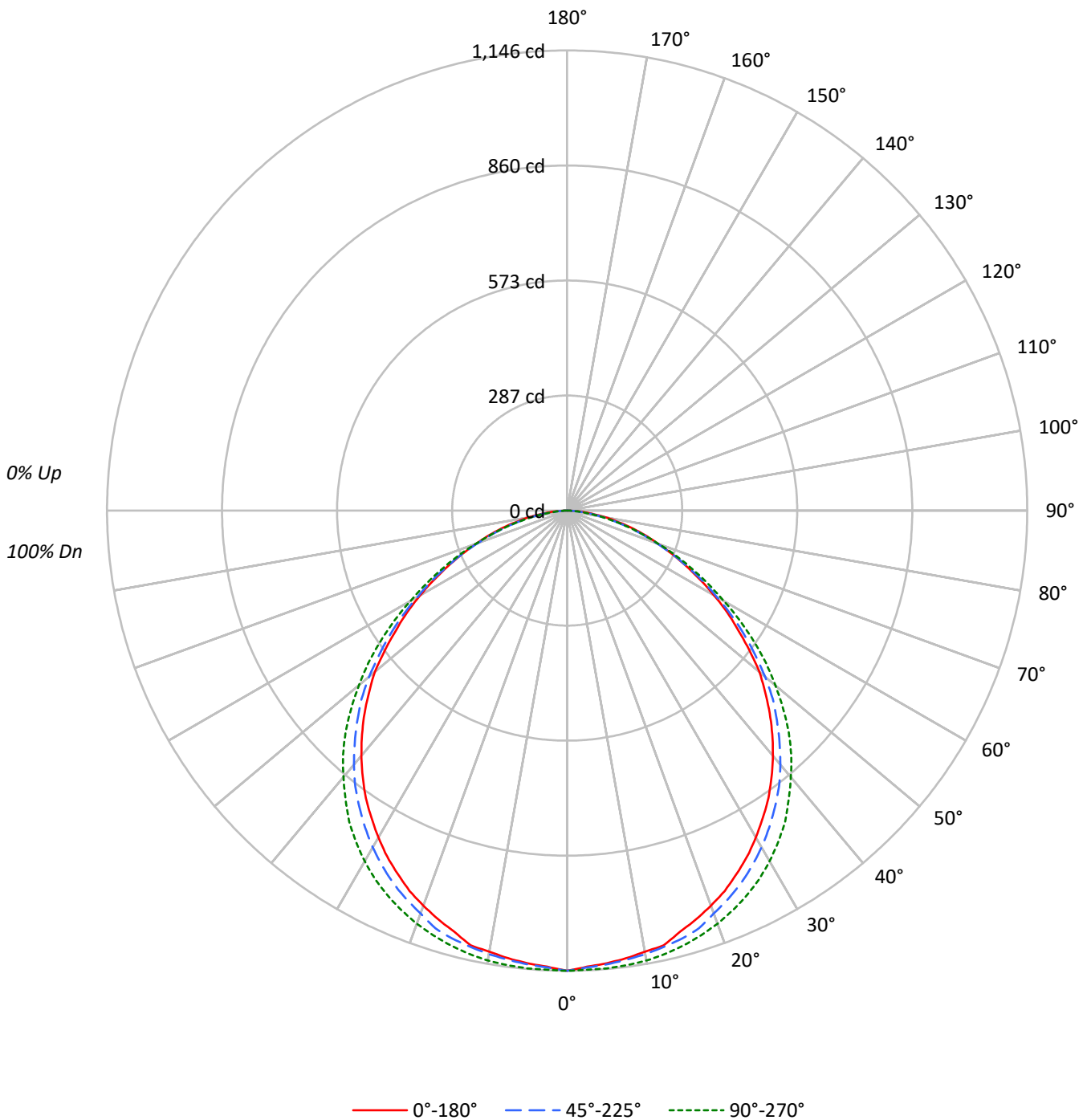
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3671	3671	3671
5°	3638	3647	3679
10°	3628	3648	3701
15°	3600	3660	3716
20°	3568	3639	3731
25°	3528	3620	3738
30°	3475	3582	3729
35°	3417	3526	3699
40°	3334	3454	3624
45°	3232	3346	3534
50°	3115	3205	3372
55°	2908	3003	3170
60°	2707	2759	2891
65°	2479	2499	2602
70°	2244	2211	2270
75°	2052	1907	1929
80°	1828	1562	1512
85°	1455	1058	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	3.5
10°-20°	311.2	10.2
20°-30°	473.0	15.5
30°-40°	566.1	18.6
40°-50°	571.6	18.8
50°-60°	482.3	15.8
60°-70°	329.3	10.8
70°-80°	167.0	5.5
80°-90°	38.5	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°	892.3	29.3
0°-40°	1458.3	47.9
0°-60°	2512.2	82.4
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1132	1132	1134	1140	1144	108
15°	1086	1090	1104	1112	1121	307
25°	998	1007	1024	1046	1058	460
35°	874	881	902	930	946	546
45°	714	717	739	768	780	550
55°	521	520	538	558	568	467
65°	327	323	330	336	343	325
75°	166	156	154	153	156	176
85°	40	34	29	26	25	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1137.1	1137.1	1138.9	1145.2	1144.3
5°	1131.7	1131.7	1134.4	1139.8	1144.3
7.5°	1124.5	1125.4	1128.1	1136.2	1141.6
10°	1115.5	1116.4	1121.8	1129.9	1138.0
12.5°	1109.2	1110.1	1112.8	1122.7	1130.8
15°	1085.7	1090.3	1103.8	1111.9	1120.9
17.5°	1067.7	1073.1	1091.2	1098.4	1109.2
20°	1047.0	1053.3	1067.7	1083.9	1094.8
22.5°	1025.4	1032.6	1047.0	1065.9	1077.6
25°	998.3	1007.4	1024.5	1046.1	1057.8
27.5°	971.3	980.3	997.4	1027.2	1035.3
30°	939.8	949.7	968.6	997.4	1008.3
32.5°	907.3	916.4	936.2	965.9	978.5
35°	874.0	881.2	901.9	929.9	946.1
37.5°	836.2	843.4	866.8	893.8	906.4
40°	797.4	802.8	826.2	853.3	866.8
42.5°	756.0	761.4	783.0	810.9	826.2
45°	713.6	717.2	738.8	767.7	780.3
47.5°	668.6	672.2	694.7	718.1	729.8
50°	625.3	623.5	643.3	665.0	676.7
52.5°	572.2	573.1	590.2	610.9	624.4
55°	520.8	519.9	537.9	557.7	567.7
57.5°	473.0	469.4	484.8	498.3	510.0
60°	422.6	419.0	430.7	445.1	451.4
62.5°	373.9	369.4	381.1	389.2	395.6
65°	327.1	322.6	329.8	336.1	343.3
67.5°	282.9	277.5	283.8	287.4	292.8
70°	239.7	235.2	236.1	240.6	242.4
72.5°	202.7	193.7	194.6	194.6	197.3
75°	165.8	155.9	154.1	153.2	155.9
77.5°	128.8	120.7	118.0	117.1	117.1
80°	99.1	88.3	84.7	82.0	82.0
82.5°	64.9	61.3	55.0	51.4	49.6
85°	39.6	34.2	28.8	26.1	25.2
87.5°	15.3	12.6	10.8	10.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)