

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: P229703

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229703
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-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: 2863.0 lumens
Efficiency: N/A
Efficacy: 72.3 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

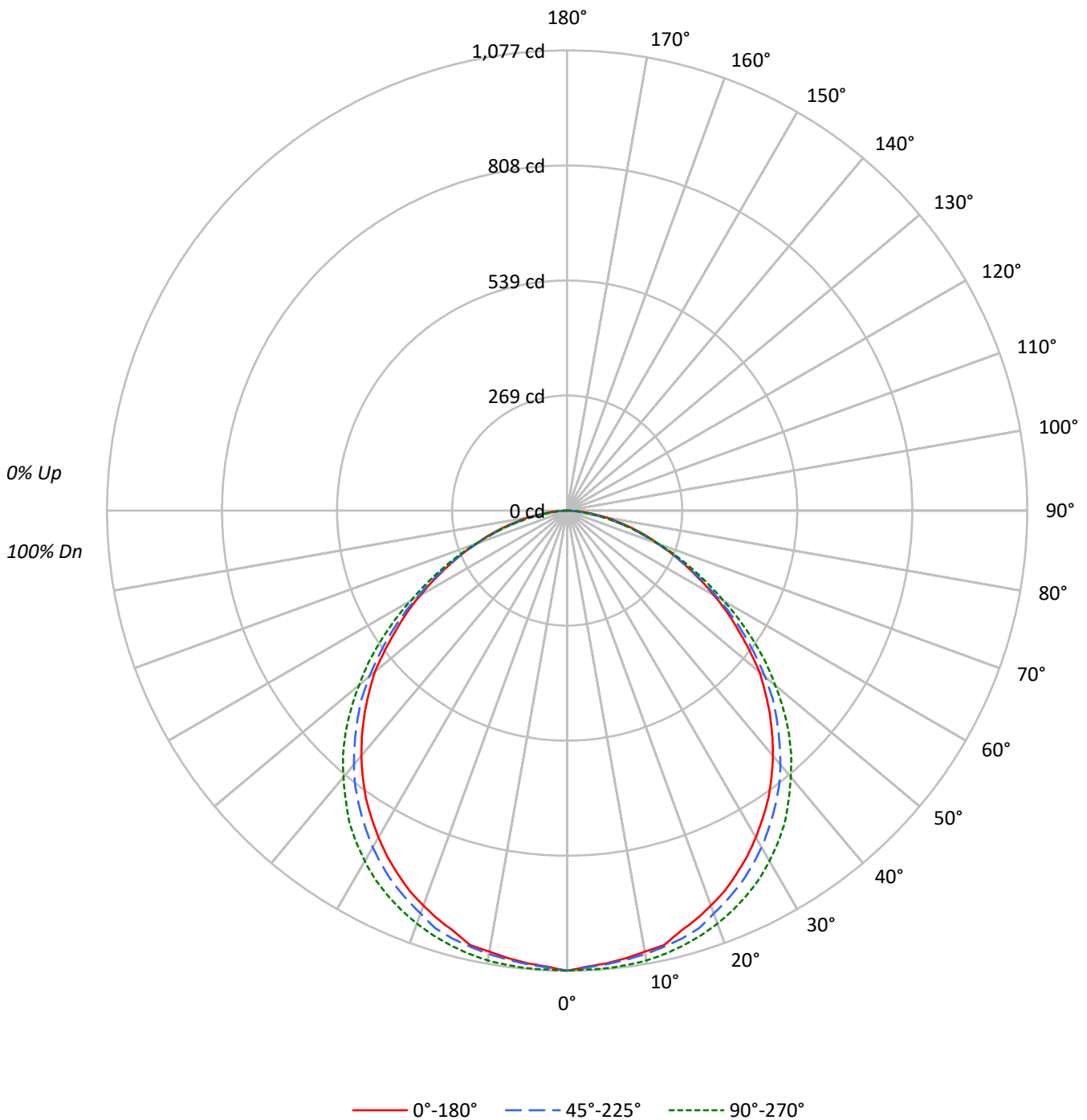
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3449	3449	3449
5°	3419	3427	3457
10°	3408	3428	3477
15°	3383	3439	3492
20°	3353	3419	3506
25°	3315	3402	3512
30°	3265	3366	3504
35°	3211	3313	3476
40°	3133	3246	3405
45°	3037	3144	3321
50°	2928	3012	3168
55°	2732	2822	2978
60°	2544	2592	2717
65°	2329	2348	2445
70°	2109	2077	2132
75°	1928	1792	1813
80°	1717	1468	1420
85°	1371	996	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.5
10°-20°	292.4	10.2
20°-30°	444.4	15.5
30°-40°	531.9	18.6
40°-50°	537.1	18.8
50°-60°	453.2	15.8
60°-70°	309.4	10.8
70°-80°	156.9	5.5
80°-90°	36.2	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°	838.4	29.3
0°-40°	1370.2	47.9
0°-60°	2360.5	82.4
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1063	1063	1066	1071	1075	101
15°	1020	1024	1037	1045	1053	288
25°	938	946	963	983	994	432
35°	821	828	848	874	889	513
45°	670	674	694	721	733	517
55°	489	488	505	524	533	439
65°	307	303	310	316	323	306
75°	156	146	145	144	146	165
85°	37	32	27	25	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.9	1076.9	1076.9	1076.9	1076.9
2.5°	1068.4	1068.4	1070.1	1076.1	1075.2
5°	1063.4	1063.4	1065.9	1071.0	1075.2
7.5°	1056.6	1057.4	1060.0	1067.6	1072.7
10°	1048.1	1049.0	1054.0	1061.7	1069.3
12.5°	1042.2	1043.0	1045.6	1054.9	1062.5
15°	1020.2	1024.4	1037.1	1044.7	1053.2
17.5°	1003.3	1008.3	1025.3	1032.0	1042.2
20°	983.8	989.7	1003.3	1018.5	1028.6
22.5°	963.5	970.2	983.8	1001.6	1012.6
25°	938.1	946.5	962.6	982.9	993.9
27.5°	912.7	921.1	937.2	965.2	972.8
30°	883.0	892.3	910.1	937.2	947.4
32.5°	852.6	861.0	879.6	907.6	919.4
35°	821.2	828.0	847.5	873.7	889.0
37.5°	785.7	792.4	814.5	839.9	851.7
40°	749.3	754.3	776.4	801.8	814.5
42.5°	710.3	715.4	735.7	762.0	776.4
45°	670.5	673.9	694.2	721.3	733.2
47.5°	628.2	631.6	652.7	674.8	685.8
50°	587.6	585.9	604.5	624.8	635.8
52.5°	537.6	538.5	554.5	574.0	586.7
55°	489.3	488.5	505.4	524.1	533.4
57.5°	444.5	441.1	455.5	468.2	479.2
60°	397.1	393.7	404.7	418.2	424.2
62.5°	351.3	347.1	358.1	365.7	371.7
65°	307.3	303.1	309.9	315.8	322.6
67.5°	265.8	260.8	266.7	270.1	275.2
70°	225.2	221.0	221.8	226.0	227.7
72.5°	190.5	182.0	182.9	182.9	185.4
75°	155.8	146.5	144.8	143.9	146.5
77.5°	121.1	113.4	110.9	110.1	110.1
80°	93.1	83.0	79.6	77.0	77.0
82.5°	61.0	57.6	51.6	48.3	46.6
85°	37.3	32.2	27.1	24.6	23.7
87.5°	14.4	11.9	10.2	10.2	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)