

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: P229670

Luminaire Tested: **22RLN-LD5-31-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

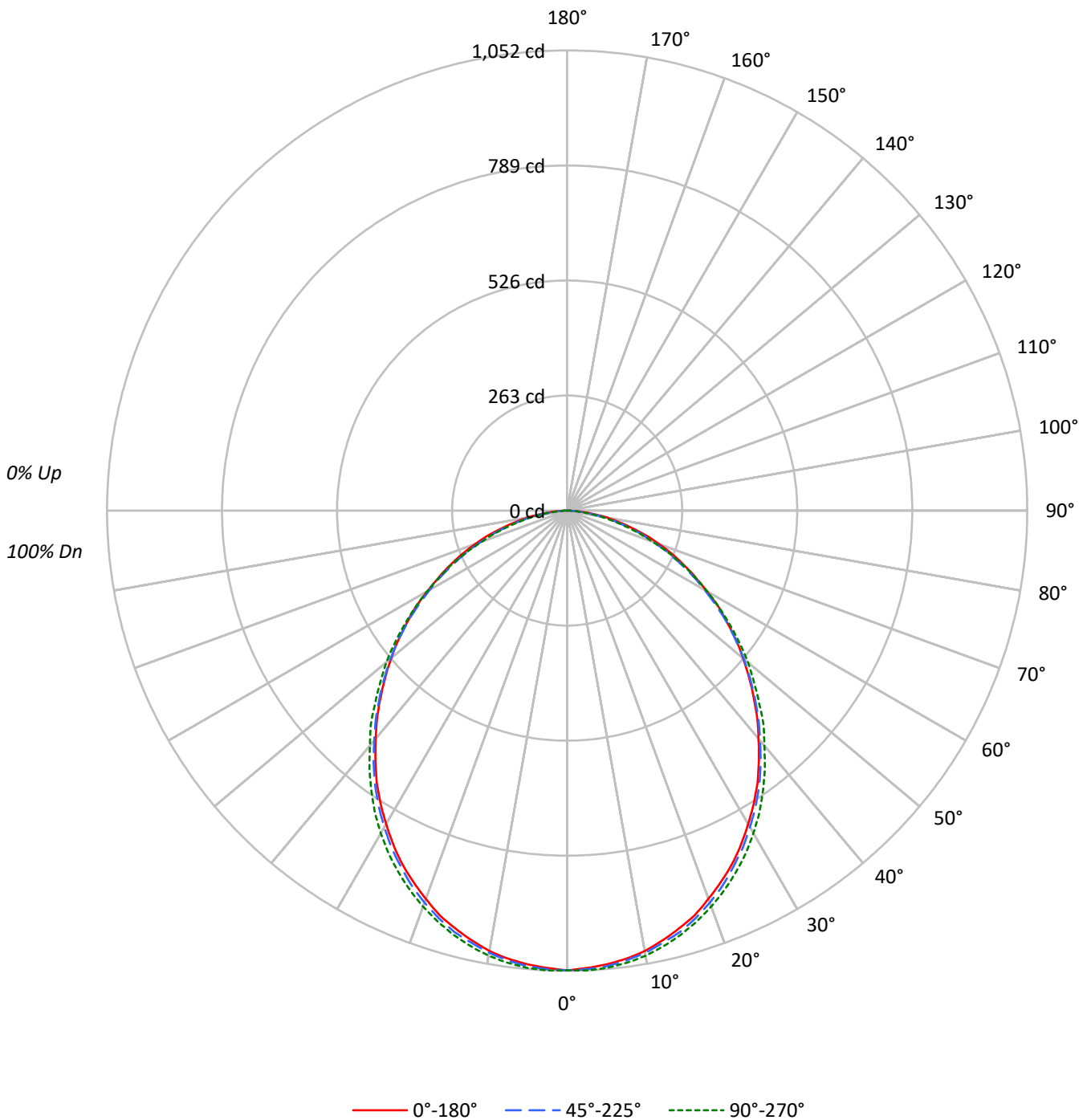
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	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	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3366	3366	3366
5°	3348	3361	3374
10°	3326	3339	3361
15°	3279	3306	3328
20°	3219	3251	3283
25°	3152	3176	3224
30°	3060	3090	3150
35°	2967	2993	3051
40°	2846	2869	2931
45°	2730	2748	2809
50°	2615	2628	2688
55°	2494	2487	2532
60°	2362	2327	2370
65°	2233	2151	2202
70°	2092	1978	1940
75°	1898	1748	1682
80°	1712	1488	1389
85°	1334	1040	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.8
10°-20°	280.8	10.7
20°-30°	414.6	15.8
30°-40°	479.4	18.3
40°-50°	470.2	18.0
50°-60°	399.9	15.3
60°-70°	284.9	10.9
70°-80°	152.0	5.8
80°-90°	36.1	1.4
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°	794.5	30.4
0°-40°	1273.9	48.7
0°-60°	2144.1	81.9
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1041	1043	1046	1048	1050	99
15°	989	990	997	1002	1004	279
25°	892	893	899	908	912	410
35°	759	756	766	778	780	474
45°	603	602	607	618	620	465
55°	447	443	445	451	453	400
65°	295	285	284	285	291	292
75°	153	145	141	139	136	164
85°	36	32	28	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.9	1050.9	1050.9	1050.9	1050.9
2.5°	1046.8	1048.2	1049.5	1052.2	1052.2
5°	1041.4	1042.8	1045.5	1048.2	1049.5
7.5°	1033.4	1033.4	1037.4	1040.1	1042.8
10°	1022.6	1024.0	1026.6	1030.7	1033.4
12.5°	1006.5	1009.2	1011.8	1017.2	1019.9
15°	989.0	990.3	997.0	1002.4	1003.8
17.5°	970.1	970.1	976.9	982.2	984.9
20°	944.6	947.3	954.0	960.7	963.4
22.5°	919.0	921.7	928.4	935.1	939.2
25°	892.1	893.4	898.8	908.2	912.3
27.5°	861.1	863.8	869.2	878.6	884.0
30°	827.5	830.2	835.6	846.3	851.7
32.5°	793.9	796.6	801.9	812.7	818.1
35°	758.9	756.2	765.6	777.7	780.4
37.5°	719.9	721.2	726.6	737.4	742.7
40°	680.8	680.8	686.2	698.3	701.0
42.5°	643.2	641.8	647.2	658.0	664.7
45°	602.8	601.5	606.8	617.6	620.3
47.5°	563.8	561.1	566.5	575.9	578.6
50°	524.8	522.1	527.4	535.5	539.6
52.5°	487.1	481.7	485.7	492.5	496.5
55°	446.7	442.7	445.4	450.8	453.4
57.5°	410.4	402.3	403.7	409.0	411.7
60°	368.7	361.9	363.3	368.7	370.0
62.5°	331.0	324.3	324.3	325.6	328.3
65°	294.7	285.3	283.9	285.3	290.6
67.5°	259.7	250.3	247.6	247.6	248.9
70°	223.4	213.9	211.2	209.9	207.2
72.5°	189.7	177.6	176.3	172.2	173.6
75°	153.4	145.3	141.3	138.6	135.9
77.5°	121.1	114.4	109.0	105.0	105.0
80°	92.8	83.4	80.7	75.3	75.3
82.5°	61.9	57.9	52.5	48.4	47.1
85°	36.3	32.3	28.3	24.2	24.2
87.5°	13.5	10.8	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)