

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: P229668

Luminaire Tested: **22RLN-LD5-20-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229668
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-LD5-20-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: 1672.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

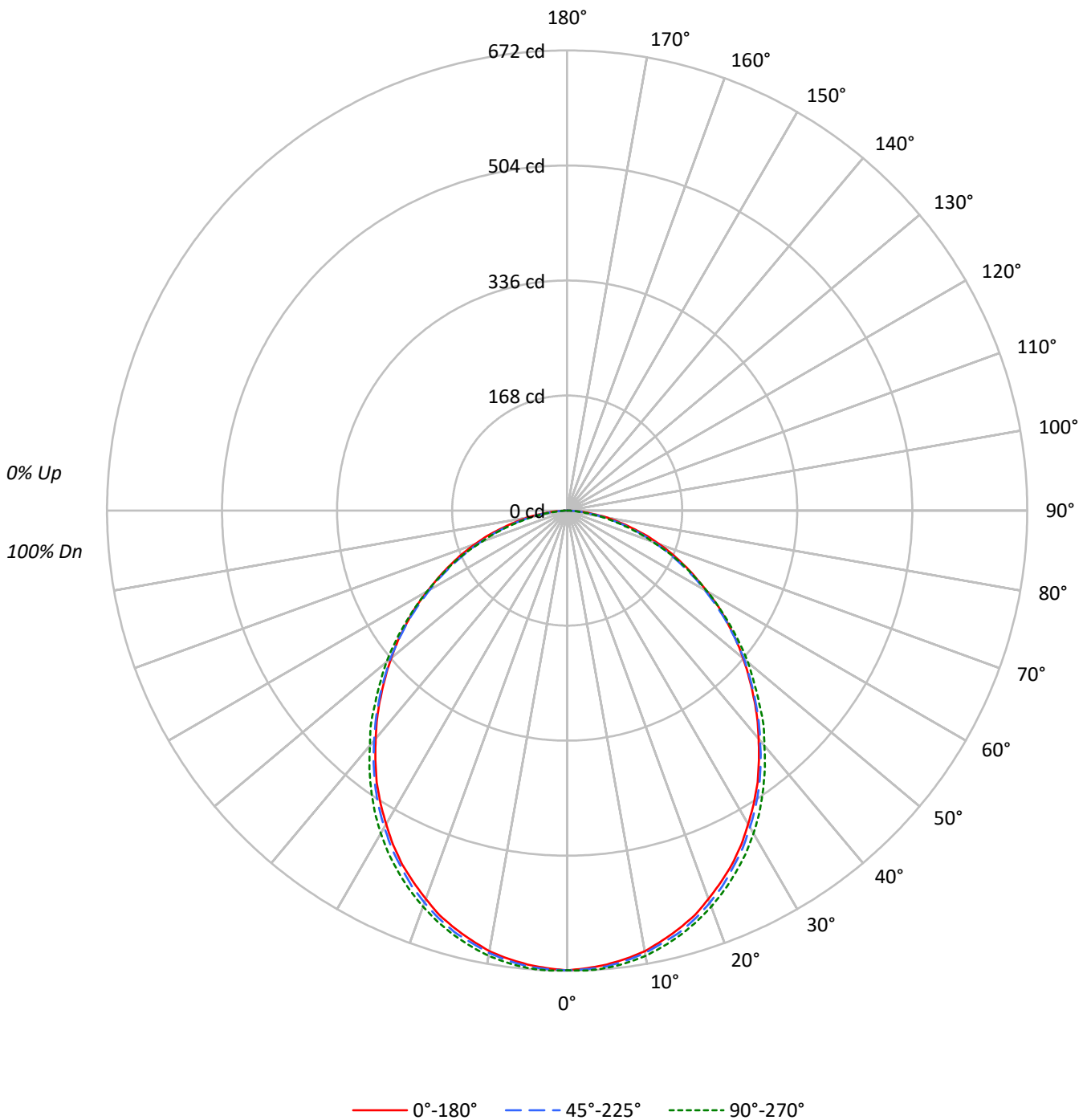
Input Watts (W): 16.43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	59	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°	2150	2150	2150
5°	2139	2148	2156
10°	2125	2133	2147
15°	2095	2112	2126
20°	2057	2077	2098
25°	2014	2029	2060
30°	1955	1974	2012
35°	1895	1912	1949
40°	1819	1833	1873
45°	1744	1756	1795
50°	1671	1679	1717
55°	1594	1589	1618
60°	1508	1487	1514
65°	1427	1375	1407
70°	1336	1264	1240
75°	1213	1117	1074
80°	1094	952	887
85°	853	665	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.8
10°-20°	179.4	10.7
20°-30°	264.9	15.8
30°-40°	306.3	18.3
40°-50°	300.4	18.0
50°-60°	255.5	15.3
60°-70°	182.0	10.9
70°-80°	97.1	5.8
80°-90°	23.1	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°	507.6	30.4
0°-40°	813.9	48.7
0°-60°	1369.8	81.9
0°-90°	1672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	665	666	668	670	670	63
15°	632	633	637	640	641	178
25°	570	571	574	580	583	262
35°	485	483	489	497	499	303
45°	385	384	388	395	396	297
55°	285	283	284	288	290	256
65°	188	182	181	182	186	187
75°	98	93	90	88	87	105
85°	23	21	18	16	16	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.4	671.4	671.4	671.4	671.4
2.5°	668.8	669.7	670.5	672.3	672.3
5°	665.4	666.2	668.0	669.7	670.5
7.5°	660.2	660.2	662.8	664.5	666.2
10°	653.3	654.2	655.9	658.5	660.2
12.5°	643.0	644.7	646.5	649.9	651.6
15°	631.9	632.7	637.0	640.4	641.3
17.5°	619.8	619.8	624.1	627.6	629.3
20°	603.5	605.2	609.5	613.8	615.5
22.5°	587.1	588.9	593.2	597.5	600.0
25°	570.0	570.8	574.3	580.3	582.9
27.5°	550.2	551.9	555.3	561.4	564.8
30°	528.7	530.4	533.9	540.7	544.2
32.5°	507.2	508.9	512.4	519.2	522.7
35°	484.8	483.1	489.1	496.9	498.6
37.5°	459.9	460.8	464.2	471.1	474.5
40°	435.0	435.0	438.4	446.2	447.9
42.5°	410.9	410.1	413.5	420.4	424.7
45°	385.1	384.3	387.7	394.6	396.3
47.5°	360.2	358.5	361.9	367.9	369.7
50°	335.3	333.5	337.0	342.1	344.7
52.5°	311.2	307.8	310.3	314.6	317.2
55°	285.4	282.8	284.5	288.0	289.7
57.5°	262.2	257.0	257.9	261.3	263.1
60°	235.5	231.2	232.1	235.5	236.4
62.5°	211.5	207.2	207.2	208.0	209.8
65°	188.3	182.2	181.4	182.2	185.7
67.5°	165.9	159.9	158.2	158.2	159.0
70°	142.7	136.7	135.0	134.1	132.4
72.5°	121.2	113.5	112.6	110.0	110.9
75°	98.0	92.8	90.3	88.5	86.8
77.5°	77.4	73.1	69.6	67.1	67.1
80°	59.3	53.3	51.6	48.1	48.1
82.5°	39.5	37.0	33.5	30.9	30.1
85°	23.2	20.6	18.1	15.5	15.5
87.5°	8.6	6.9	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)