

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: P229651

Luminaire Tested: **22RLN-LD5-25-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229651
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-LD5-25-UNV-L835-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2450.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

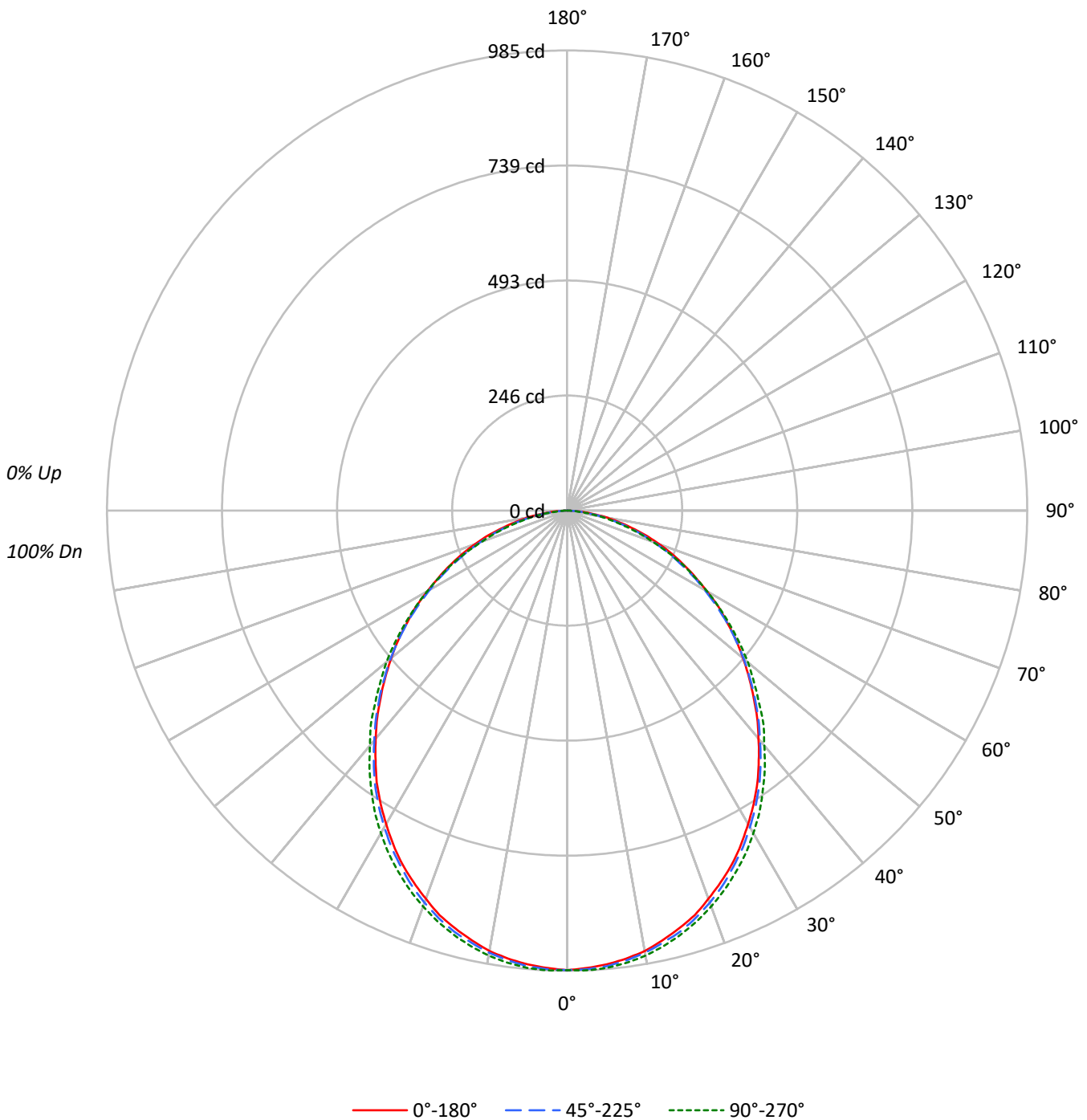
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3151	3151	3151
5°	3134	3147	3159
10°	3113	3126	3146
15°	3070	3095	3116
20°	3014	3044	3074
25°	2951	2974	3018
30°	2865	2893	2949
35°	2778	2802	2856
40°	2665	2686	2744
45°	2556	2573	2630
50°	2448	2460	2517
55°	2335	2328	2370
60°	2211	2178	2219
65°	2091	2014	2062
70°	1958	1852	1817
75°	1777	1637	1574
80°	1603	1394	1300
85°	1249	974	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.8
10°-20°	262.8	10.7
20°-30°	388.1	15.8
30°-40°	448.8	18.3
40°-50°	440.2	18.0
50°-60°	374.4	15.3
60°-70°	266.7	10.9
70°-80°	142.3	5.8
80°-90°	33.8	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°	743.8	30.4
0°-40°	1192.7	48.7
0°-60°	2007.2	81.9
0°-90°	2450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	975	976	979	981	982	93
15°	926	927	933	938	940	261
25°	835	836	842	850	854	384
35°	710	708	717	728	731	443
45°	564	563	568	578	581	436
55°	418	414	417	422	424	375
65°	276	267	266	267	272	274
75°	144	136	132	130	127	154
85°	34	30	26	23	23	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.8	983.8	983.8	983.8	983.8
2.5°	980.0	981.3	982.5	985.1	985.1
5°	975.0	976.2	978.8	981.3	982.5
7.5°	967.4	967.4	971.2	973.7	976.2
10°	957.4	958.6	961.1	964.9	967.4
12.5°	942.2	944.8	947.3	952.3	954.8
15°	925.9	927.1	933.4	938.5	939.7
17.5°	908.2	908.2	914.5	919.6	922.1
20°	884.3	886.8	893.1	899.4	901.9
22.5°	860.4	862.9	869.2	875.5	879.3
25°	835.2	836.4	841.5	850.3	854.1
27.5°	806.2	808.7	813.7	822.6	827.6
30°	774.7	777.2	782.3	792.3	797.4
32.5°	743.2	745.7	750.8	760.8	765.9
35°	710.5	707.9	716.8	728.1	730.6
37.5°	673.9	675.2	680.2	690.3	695.3
40°	637.4	637.4	642.4	653.8	656.3
42.5°	602.1	600.9	605.9	616.0	622.3
45°	564.3	563.1	568.1	578.2	580.7
47.5°	527.8	525.3	530.3	539.1	541.7
50°	491.3	488.8	493.8	501.3	505.1
52.5°	456.0	451.0	454.7	461.0	464.8
55°	418.2	414.4	417.0	422.0	424.5
57.5°	384.2	376.6	377.9	382.9	385.5
60°	345.2	338.9	340.1	345.2	346.4
62.5°	309.9	303.6	303.6	304.8	307.4
65°	275.9	267.1	265.8	267.1	272.1
67.5°	243.1	234.3	231.8	231.8	233.0
70°	209.1	200.3	197.8	196.5	194.0
72.5°	177.6	166.3	165.0	161.2	162.5
75°	143.6	136.0	132.3	129.7	127.2
77.5°	113.4	107.1	102.0	98.3	98.3
80°	86.9	78.1	75.6	70.5	70.5
82.5°	57.9	54.2	49.1	45.3	44.1
85°	34.0	30.2	26.5	22.7	22.7
87.5°	12.6	10.1	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)