

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: P229633

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-RDP-UNV-L935-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1776.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

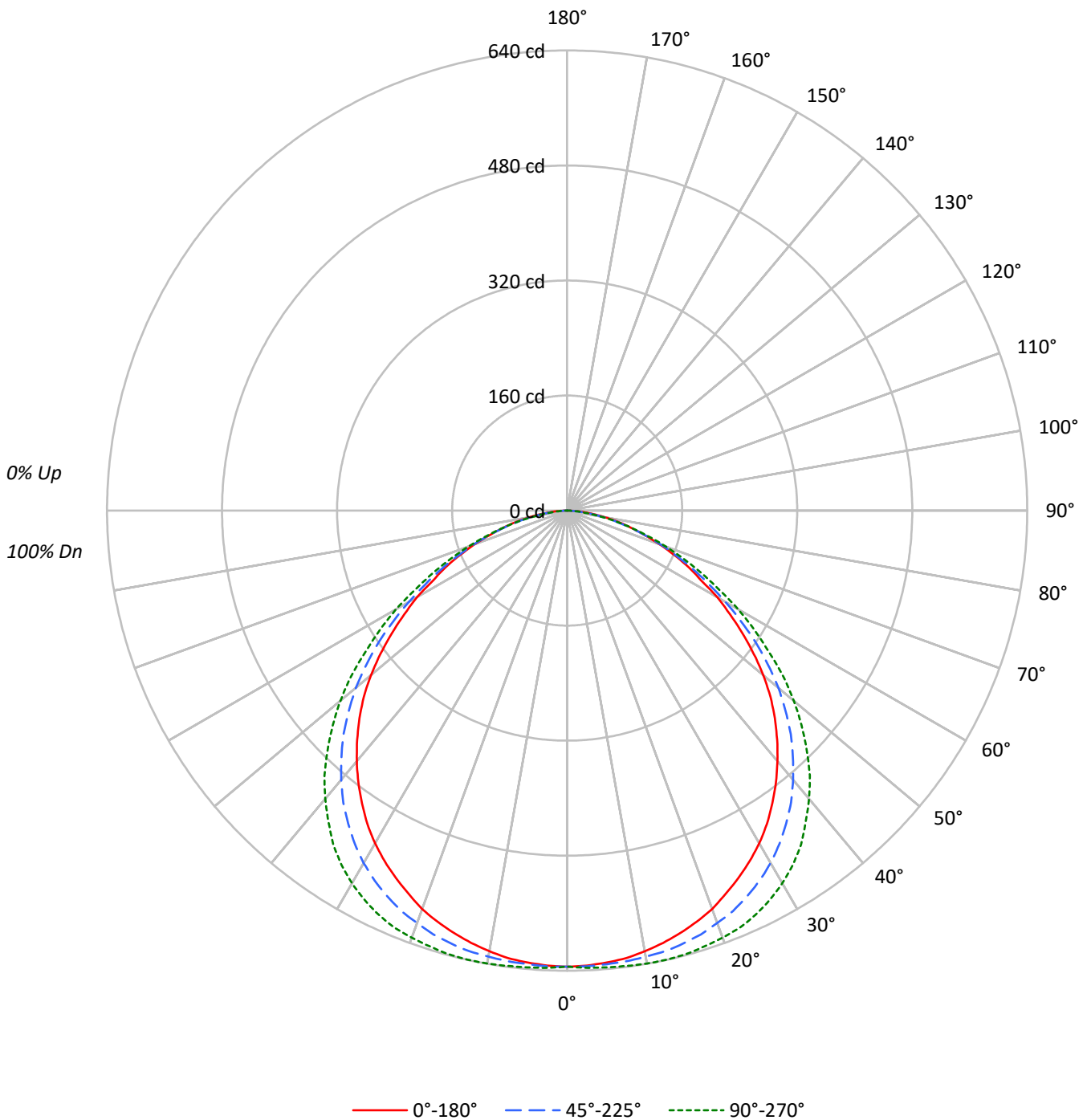
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2032	2032	2032
5°	2029	2036	2050
10°	2024	2049	2081
15°	2017	2067	2118
20°	2010	2081	2155
25°	1992	2092	2192
30°	1977	2093	2213
35°	1945	2077	2217
40°	1903	2044	2189
45°	1850	1992	2135
50°	1775	1911	2051
55°	1662	1790	1911
60°	1545	1628	1760
65°	1416	1466	1564
70°	1282	1302	1363
75°	1129	1103	1142
80°	981	902	861
85°	797	599	518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.4
10°-20°	176.1	9.9
20°-30°	272.9	15.4
30°-40°	332.1	18.7
40°-50°	338.3	19.0
50°-60°	285.3	16.1
60°-70°	193.0	10.9
70°-80°	96.4	5.4
80°-90°	21.4	1.2
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°	509.5	28.7
0°-40°	841.6	47.4
0°-60°	1465.1	82.5
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	631	632	633	637	638	60
15°	608	613	624	634	639	172
25°	564	572	592	612	620	260
35°	498	508	531	556	567	311
45°	408	416	440	463	471	315
55°	298	302	320	336	342	266
65°	187	184	193	202	206	185
75°	91	88	89	90	92	98
85°	22	18	16	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.4	634.4	634.4	634.4	634.4
2.5°	633.3	633.3	634.4	635.5	636.6
5°	631.1	632.2	633.3	636.6	637.7
7.5°	627.9	629.0	632.2	636.6	638.7
10°	622.4	624.6	630.0	636.6	639.8
12.5°	615.9	619.2	627.9	635.5	639.8
15°	608.3	612.7	623.5	634.4	638.7
17.5°	599.6	605.1	618.1	630.0	635.5
20°	589.9	596.4	610.5	625.7	632.2
22.5°	576.8	585.5	602.9	620.3	627.9
25°	563.8	572.5	592.0	611.6	620.3
27.5°	549.7	559.4	580.1	601.8	610.5
30°	534.5	543.1	566.0	588.8	598.5
32.5°	517.1	525.8	549.7	573.6	584.4
35°	497.5	508.4	531.2	556.2	567.0
37.5°	476.9	486.7	511.6	535.5	545.3
40°	455.2	464.9	488.8	513.8	523.6
42.5°	432.3	442.1	464.9	488.8	499.7
45°	408.4	416.0	439.9	462.8	471.4
47.5°	383.5	388.9	411.7	433.4	442.1
50°	356.3	361.7	383.5	403.0	411.7
52.5°	327.0	331.3	352.0	369.3	379.1
55°	297.6	302.0	320.5	335.7	342.2
57.5°	268.3	270.5	286.8	302.0	308.5
60°	241.2	241.2	254.2	266.1	274.8
62.5°	209.7	212.9	222.7	234.6	237.9
65°	186.8	183.6	193.4	202.0	206.4
67.5°	160.8	158.6	165.1	172.7	174.9
70°	136.9	133.6	139.0	143.4	145.6
72.5°	111.9	110.8	113.0	116.2	117.3
75°	91.2	88.0	89.1	90.2	92.3
77.5°	72.8	67.3	68.4	67.3	68.4
80°	53.2	48.9	48.9	47.8	46.7
82.5°	35.8	33.7	31.5	29.3	28.2
85°	21.7	18.5	16.3	14.1	14.1
87.5°	8.7	6.5	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)