

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: P229645

Luminaire Tested: **22RLN-LD5-25-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229645
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-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2352.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

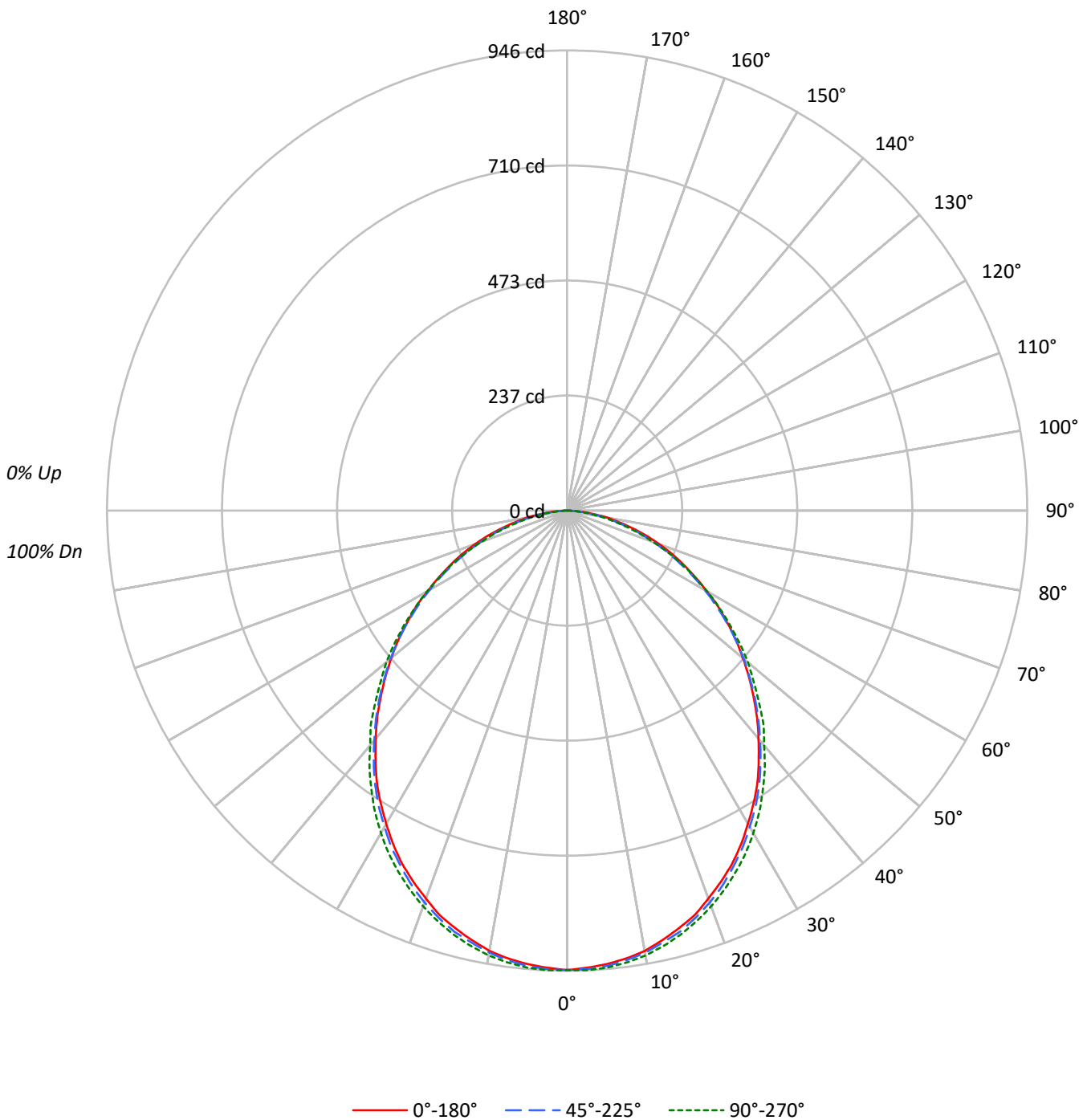
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3025	3025	3025
5°	3009	3021	3032
10°	2989	3001	3020
15°	2947	2971	2991
20°	2893	2922	2951
25°	2833	2855	2897
30°	2750	2777	2831
35°	2666	2690	2742
40°	2558	2578	2634
45°	2454	2470	2525
50°	2350	2362	2416
55°	2242	2235	2275
60°	2122	2091	2130
65°	2007	1934	1979
70°	1879	1778	1744
75°	1706	1571	1511
80°	1538	1339	1249
85°	1202	933	801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.8
10°-20°	252.3	10.7
20°-30°	372.6	15.8
30°-40°	430.9	18.3
40°-50°	422.6	18.0
50°-60°	359.4	15.3
60°-70°	256.0	10.9
70°-80°	136.6	5.8
80°-90°	32.5	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°	714.1	30.4
0°-40°	1144.9	48.7
0°-60°	1927.0	81.9
0°-90°	2352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	936	937	940	942	943	89
15°	889	890	896	901	902	251
25°	802	803	808	816	820	369
35°	682	680	688	699	701	426
45°	542	541	545	555	558	418
55°	402	398	400	405	408	360
65°	265	256	255	256	261	263
75°	138	131	127	125	122	147
85°	33	29	25	22	22	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.5	944.5	944.5	944.5	944.5
2.5°	940.8	942.0	943.2	945.7	945.7
5°	936.0	937.2	939.6	942.0	943.2
7.5°	928.7	928.7	932.4	934.8	937.2
10°	919.1	920.3	922.7	926.3	928.7
12.5°	904.5	907.0	909.4	914.2	916.6
15°	888.8	890.0	896.1	900.9	902.1
17.5°	871.9	871.9	877.9	882.8	885.2
20°	848.9	851.3	857.4	863.4	865.8
22.5°	825.9	828.4	834.4	840.5	844.1
25°	801.8	803.0	807.8	816.3	819.9
27.5°	773.9	776.4	781.2	789.7	794.5
30°	743.7	746.1	751.0	760.6	765.5
32.5°	713.5	715.9	720.7	730.4	735.2
35°	682.0	679.6	688.1	699.0	701.4
37.5°	647.0	648.2	653.0	662.7	667.5
40°	611.9	611.9	616.7	627.6	630.0
42.5°	578.0	576.8	581.7	591.3	597.4
45°	541.8	540.6	545.4	555.1	557.5
47.5°	506.7	504.3	509.1	517.6	520.0
50°	471.6	469.2	474.0	481.3	484.9
52.5°	437.8	432.9	436.6	442.6	446.2
55°	401.5	397.9	400.3	405.1	407.5
57.5°	368.8	361.6	362.8	367.6	370.0
60°	331.3	325.3	326.5	331.3	332.6
62.5°	297.5	291.4	291.4	292.6	295.1
65°	264.8	256.4	255.2	256.4	261.2
67.5°	233.4	224.9	222.5	222.5	223.7
70°	200.7	192.3	189.9	188.6	186.2
72.5°	170.5	159.6	158.4	154.8	156.0
75°	137.9	130.6	127.0	124.6	122.1
77.5°	108.8	102.8	98.0	94.3	94.3
80°	83.4	75.0	72.6	67.7	67.7
82.5°	55.6	52.0	47.2	43.5	42.3
85°	32.7	29.0	25.4	21.8	21.8
87.5°	12.1	9.7	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)