

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: P229572

Luminaire Tested: **22RLN-LD5-20-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
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-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

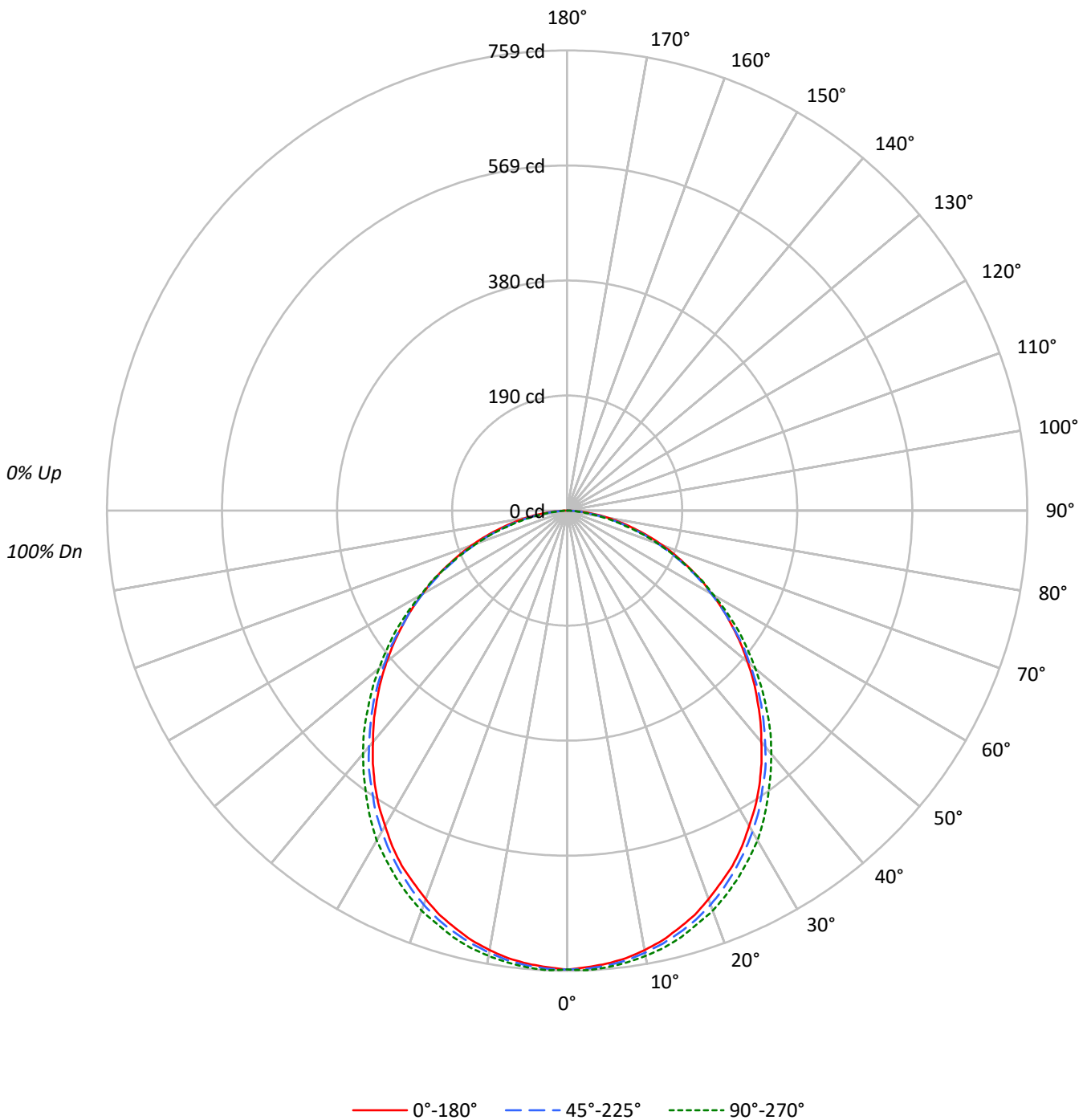
Lumens per Lamp: N/A
Luminaire Lumens: 1935.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2424	2424	2424
5°	2412	2421	2431
10°	2394	2408	2426
15°	2363	2388	2414
20°	2325	2358	2394
25°	2282	2313	2360
30°	2221	2261	2323
35°	2161	2194	2257
40°	2082	2126	2190
45°	2011	2050	2109
50°	1938	1959	2020
55°	1857	1860	1925
60°	1768	1760	1788
65°	1673	1636	1660
70°	1568	1488	1494
75°	1419	1305	1267
80°	1256	1097	1018
85°	1014	768	654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.7
10°-20°	203.1	10.5
20°-30°	301.8	15.6
30°-40°	352.4	18.2
40°-50°	349.7	18.1
50°-60°	300.1	15.5
60°-70°	215.4	11.1
70°-80°	114.1	5.9
80°-90°	26.7	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°	576.5	29.8
0°-40°	928.8	48.0
0°-60°	1578.7	81.6
0°-90°	1935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	750	751	753	756	756	71
15°	713	715	720	726	728	201
25°	646	648	654	664	668	297
35°	553	554	561	574	577	345
45°	444	446	453	461	466	343
55°	332	331	333	340	345	297
65°	221	215	216	218	219	219
75°	115	109	106	104	102	122
85°	28	24	21	18	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.9	756.9	756.9	756.9	756.9
2.5°	753.9	754.5	756.3	758.1	758.8
5°	750.2	751.4	753.2	755.7	756.3
7.5°	744.7	745.9	748.3	750.8	752.0
10°	736.1	737.9	740.4	744.7	745.9
12.5°	726.3	727.5	731.2	736.1	738.5
15°	712.8	715.2	720.1	725.6	728.1
17.5°	699.3	701.1	707.2	712.8	714.6
20°	682.1	685.8	691.9	698.6	702.3
22.5°	663.7	666.8	674.1	682.1	685.8
25°	645.9	647.7	654.5	664.3	668.0
27.5°	624.4	626.3	633.6	643.4	648.3
30°	600.5	603.6	611.5	622.6	628.1
32.5°	577.8	580.3	588.2	598.1	603.6
35°	552.7	554.5	561.2	573.5	577.2
37.5°	526.3	528.1	537.3	546.5	550.8
40°	498.1	500.5	508.5	517.7	523.8
42.5°	472.3	473.5	480.3	490.7	496.2
45°	444.1	445.9	452.7	460.7	465.6
47.5°	417.1	416.5	423.2	432.4	436.1
50°	388.9	387.7	393.2	402.4	405.4
52.5°	360.7	358.8	365.0	371.7	374.2
55°	332.5	330.6	333.1	340.4	344.7
57.5°	304.9	301.8	304.9	308.5	312.2
60°	276.0	271.1	274.8	279.1	279.1
62.5°	249.6	244.1	246.0	249.0	250.9
65°	220.8	215.3	215.9	217.8	219.0
67.5°	193.8	188.3	187.1	187.7	188.3
70°	167.5	161.3	158.9	157.6	159.5
72.5°	140.5	134.3	133.1	130.7	131.3
75°	114.7	109.2	105.5	104.3	102.4
77.5°	90.2	85.3	82.2	78.5	77.9
80°	68.1	62.0	59.5	57.0	55.2
82.5°	47.8	42.3	38.0	35.6	33.7
85°	27.6	23.9	20.9	17.8	17.8
87.5°	11.0	8.6	7.4	6.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)