

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: P229628

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229628
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-LD5-31-RDP-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2124.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

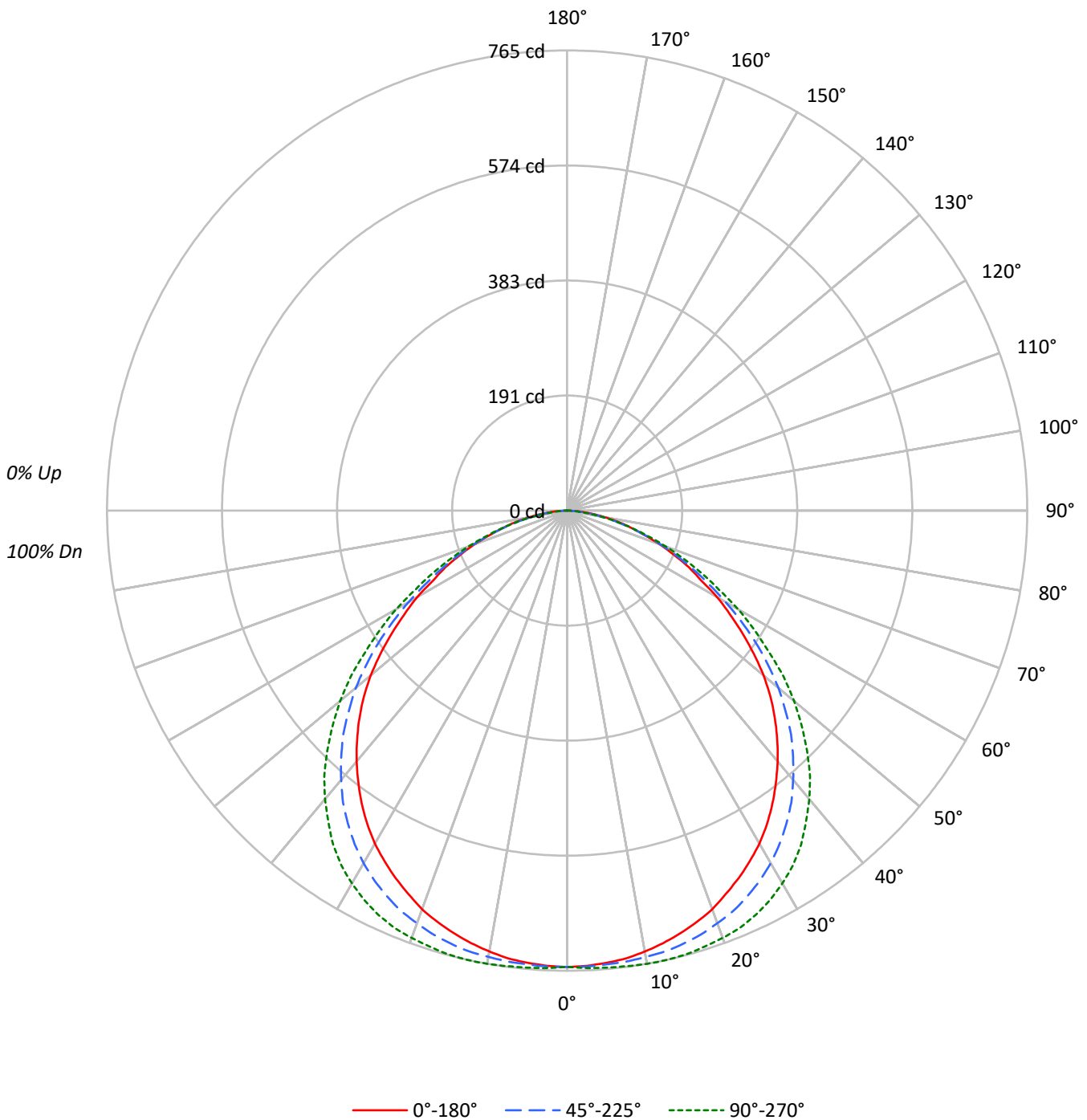
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2430	2430	2430
5°	2427	2435	2452
10°	2421	2450	2488
15°	2412	2472	2533
20°	2404	2488	2577
25°	2383	2502	2621
30°	2364	2503	2647
35°	2326	2484	2652
40°	2276	2444	2618
45°	2212	2383	2554
50°	2123	2285	2453
55°	1988	2140	2285
60°	1847	1947	2105
65°	1694	1752	1870
70°	1533	1557	1630
75°	1350	1318	1366
80°	1175	1079	1031
85°	955	717	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.4
10°-20°	210.7	9.9
20°-30°	326.4	15.4
30°-40°	397.2	18.7
40°-50°	404.6	19.0
50°-60°	341.2	16.1
60°-70°	230.8	10.9
70°-80°	115.3	5.4
80°-90°	25.7	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°	609.3	28.7
0°-40°	1006.5	47.4
0°-60°	1752.2	82.5
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	755	756	757	761	763	72
15°	728	733	746	759	764	205
25°	674	685	708	731	742	311
35°	595	608	635	665	678	372
45°	488	498	526	553	564	376
55°	356	361	383	401	409	318
65°	224	220	231	242	247	221
75°	109	105	106	108	110	117
85°	26	22	20	17	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.7	758.7	758.7	758.7	758.7
2.5°	757.4	757.4	758.7	760.0	761.3
5°	754.8	756.1	757.4	761.3	762.6
7.5°	750.9	752.2	756.1	761.3	763.9
10°	744.4	747.0	753.5	761.3	765.2
12.5°	736.6	740.5	750.9	760.0	765.2
15°	727.5	732.7	745.7	758.7	763.9
17.5°	717.1	723.6	739.2	753.5	760.0
20°	705.4	713.2	730.1	748.3	756.1
22.5°	689.8	700.2	721.0	741.8	750.9
25°	674.3	684.6	708.0	731.4	741.8
27.5°	657.4	669.1	693.7	719.7	730.1
30°	639.2	649.6	676.9	704.1	715.8
32.5°	618.4	628.8	657.4	685.9	698.9
35°	595.0	608.0	635.3	665.2	678.2
37.5°	570.3	582.0	611.9	640.5	652.2
40°	544.3	556.0	584.6	614.5	626.2
42.5°	517.1	528.8	556.0	584.6	597.6
45°	488.5	497.6	526.2	553.4	563.8
47.5°	458.6	465.1	492.4	518.4	528.8
50°	426.1	432.6	458.6	482.0	492.4
52.5°	391.0	396.2	420.9	441.7	453.4
55°	356.0	361.2	383.2	401.4	409.2
57.5°	320.9	323.5	343.0	361.2	369.0
60°	288.4	288.4	304.0	318.3	328.7
62.5°	250.7	254.6	266.3	280.6	284.5
65°	223.5	219.6	231.2	241.6	246.8
67.5°	192.3	189.7	197.5	206.6	209.2
70°	163.7	159.8	166.3	171.5	174.1
72.5°	133.8	132.5	135.1	139.0	140.3
75°	109.1	105.2	106.5	107.8	110.4
77.5°	87.0	80.5	81.8	80.5	81.8
80°	63.7	58.5	58.5	57.2	55.9
82.5°	42.9	40.3	37.7	35.1	33.8
85°	26.0	22.1	19.5	16.9	16.9
87.5°	10.4	7.8	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)