

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: P229622

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229622
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-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

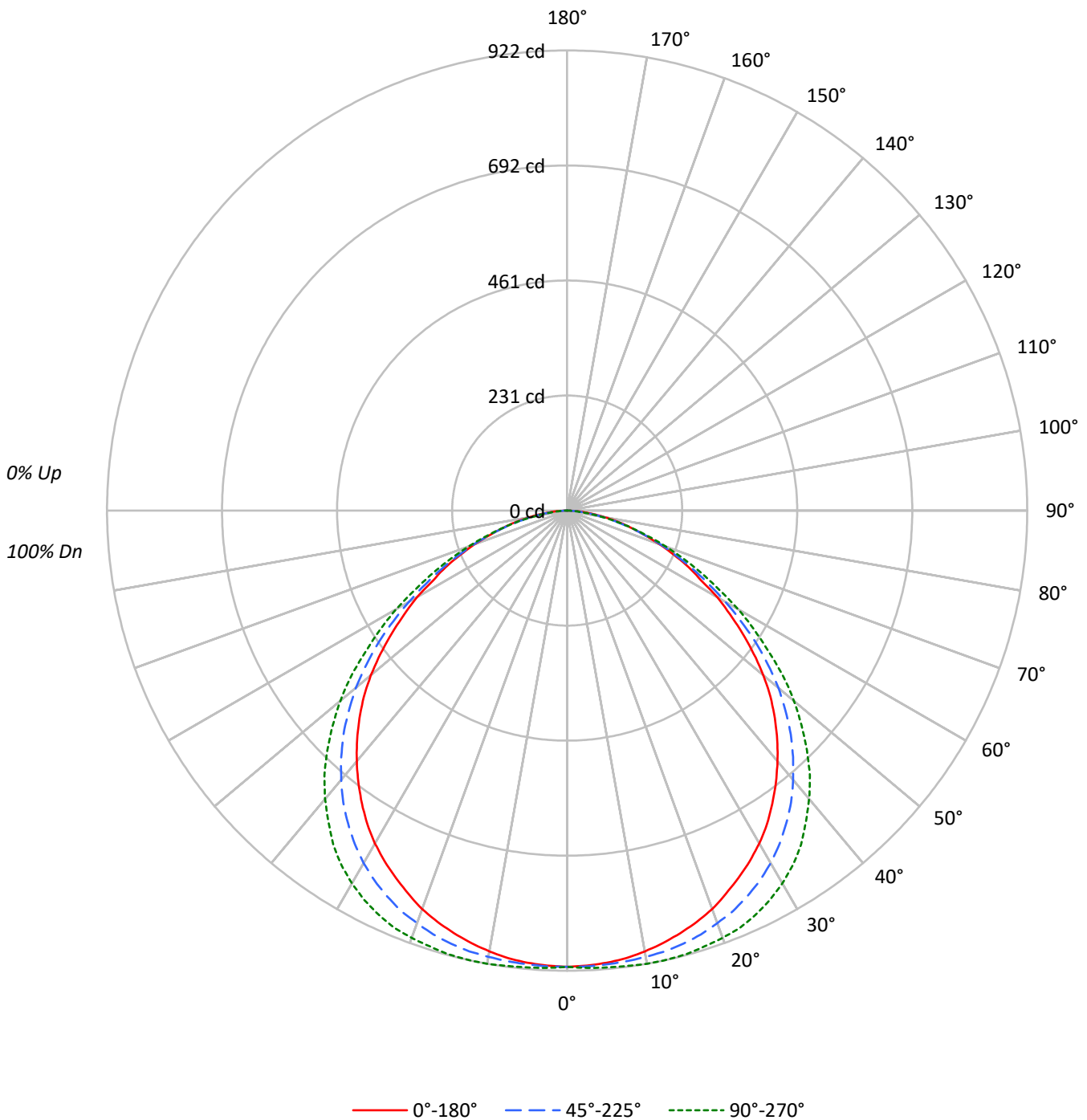
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2927	2927	2927
5°	2924	2934	2954
10°	2917	2952	2998
15°	2906	2979	3051
20°	2897	2998	3105
25°	2870	3014	3158
30°	2848	3016	3189
35°	2803	2992	3194
40°	2742	2944	3154
45°	2665	2871	3077
50°	2558	2753	2956
55°	2395	2578	2753
60°	2226	2346	2536
65°	2040	2111	2254
70°	1847	1876	1964
75°	1627	1588	1646
80°	1415	1298	1241
85°	1150	864	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.4
10°-20°	253.8	9.9
20°-30°	393.2	15.4
30°-40°	478.6	18.7
40°-50°	487.4	19.0
50°-60°	411.0	16.1
60°-70°	278.1	10.9
70°-80°	138.9	5.4
80°-90°	30.9	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°	734.1	28.7
0°-40°	1212.6	47.4
0°-60°	2111.1	82.5
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	909	911	912	917	919	86
15°	876	883	898	914	920	247
25°	812	825	853	881	894	374
35°	717	732	765	801	817	448
45°	588	600	634	667	679	453
55°	429	435	462	484	493	384
65°	269	264	279	291	297	266
75°	132	127	128	130	133	141
85°	31	27	24	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	912.5	912.5	914.1	915.6	917.2
5°	909.4	911.0	912.5	917.2	918.8
7.5°	904.7	906.3	911.0	917.2	920.3
10°	896.9	900.0	907.8	917.2	921.9
12.5°	887.5	892.2	904.7	915.6	921.9
15°	876.5	882.8	898.4	914.1	920.3
17.5°	864.0	871.8	890.6	907.8	915.6
20°	849.9	859.3	879.6	901.6	911.0
22.5°	831.1	843.6	868.7	893.7	904.7
25°	812.3	824.9	853.0	881.2	893.7
27.5°	792.0	806.1	835.8	867.1	879.6
30°	770.1	782.6	815.5	848.3	862.4
32.5°	745.0	757.6	792.0	826.4	842.1
35°	716.9	732.5	765.4	801.4	817.0
37.5°	687.1	701.2	737.2	771.6	785.7
40°	655.8	669.9	704.3	740.3	754.4
42.5°	623.0	637.0	669.9	704.3	720.0
45°	588.5	599.5	633.9	666.8	679.3
47.5°	552.5	560.3	593.2	624.5	637.0
50°	513.4	521.2	552.5	580.7	593.2
52.5°	471.1	477.4	507.1	532.2	546.3
55°	428.9	435.1	461.7	483.7	493.0
57.5°	386.6	389.7	413.2	435.1	444.5
60°	347.5	347.5	366.3	383.5	396.0
62.5°	302.1	306.8	320.9	338.1	342.8
65°	269.2	264.5	278.6	291.1	297.4
67.5°	231.7	228.5	237.9	248.9	252.0
70°	197.2	192.5	200.3	206.6	209.7
72.5°	161.2	159.7	162.8	167.5	169.0
75°	131.5	126.8	128.3	129.9	133.0
77.5°	104.9	97.0	98.6	97.0	98.6
80°	76.7	70.4	70.4	68.9	67.3
82.5°	51.7	48.5	45.4	42.3	40.7
85°	31.3	26.6	23.5	20.3	20.3
87.5°	12.5	9.4	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)