

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: P229682

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

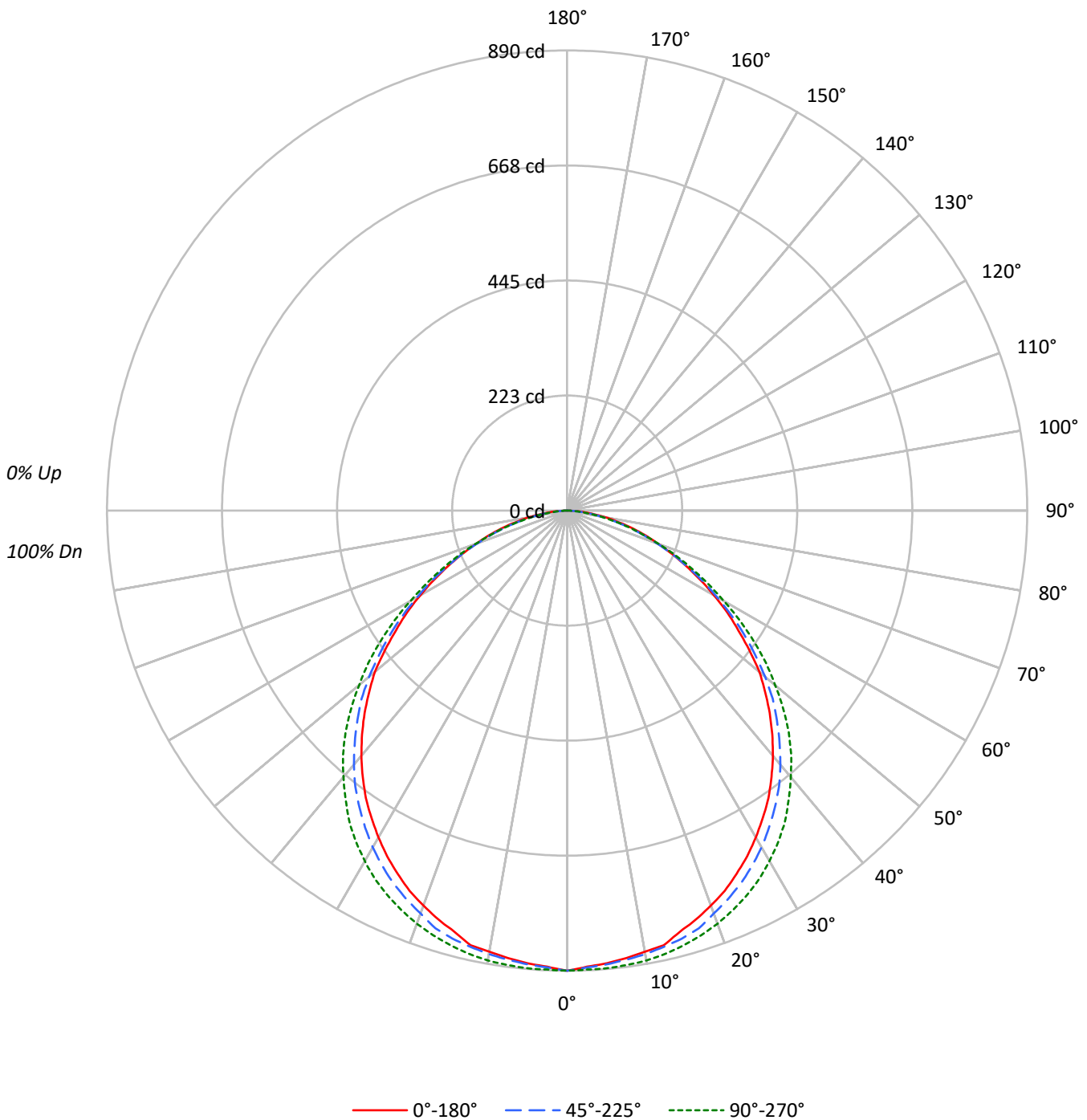
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	82	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	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	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2850	2850	2850
5°	2825	2832	2857
10°	2817	2833	2874
15°	2795	2842	2886
20°	2771	2826	2897
25°	2739	2811	2903
30°	2698	2781	2895
35°	2653	2738	2872
40°	2589	2682	2814
45°	2510	2598	2744
50°	2419	2489	2618
55°	2258	2332	2461
60°	2102	2142	2245
65°	1925	1941	2020
70°	1743	1716	1762
75°	1593	1480	1497
80°	1420	1214	1175
85°	1132	823	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.5
10°-20°	241.7	10.2
20°-30°	367.3	15.5
30°-40°	439.5	18.6
40°-50°	443.9	18.8
50°-60°	374.5	15.8
60°-70°	255.7	10.8
70°-80°	129.7	5.5
80°-90°	29.9	1.3
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°	692.8	29.3
0°-40°	1132.4	47.9
0°-60°	1950.7	82.4
0°-90°	2366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	879	879	881	885	889	84
15°	843	847	857	863	870	238
25°	775	782	796	812	821	357
35°	679	684	700	722	735	424
45°	554	557	574	596	606	427
55°	404	404	418	433	441	363
65°	254	250	256	261	267	253
75°	129	121	120	119	121	137
85°	31	27	22	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.0	890.0	890.0	890.0	890.0
2.5°	883.0	883.0	884.4	889.3	888.6
5°	878.8	878.8	880.9	885.1	888.6
7.5°	873.2	873.9	876.0	882.3	886.5
10°	866.2	866.9	871.1	877.4	883.7
12.5°	861.3	862.0	864.1	871.8	878.1
15°	843.1	846.6	857.1	863.4	870.4
17.5°	829.1	833.3	847.3	852.9	861.3
20°	813.0	817.9	829.1	841.7	850.1
22.5°	796.2	801.8	813.0	827.7	836.8
25°	775.2	782.2	795.5	812.3	821.4
27.5°	754.2	761.2	774.5	797.6	803.9
30°	729.7	737.4	752.1	774.5	782.9
32.5°	704.6	711.5	726.9	750.0	759.8
35°	678.7	684.3	700.4	722.0	734.6
37.5°	649.3	654.9	673.1	694.1	703.9
40°	619.2	623.4	641.6	662.6	673.1
42.5°	587.0	591.2	608.0	629.7	641.6
45°	554.1	556.9	573.7	596.1	605.9
47.5°	519.1	521.9	539.4	557.6	566.7
50°	485.6	484.2	499.6	516.3	525.4
52.5°	444.3	445.0	458.3	474.4	484.9
55°	404.4	403.7	417.7	433.1	440.8
57.5°	367.3	364.5	376.4	386.9	396.0
60°	328.1	325.3	334.4	345.6	350.5
62.5°	290.4	286.9	296.0	302.3	307.1
65°	254.0	250.5	256.1	261.0	266.6
67.5°	219.7	215.5	220.4	223.2	227.4
70°	186.1	182.6	183.3	186.8	188.2
72.5°	157.4	150.4	151.1	151.1	153.2
75°	128.7	121.0	119.6	118.9	121.0
77.5°	100.1	93.8	91.7	91.0	91.0
80°	77.0	68.6	65.8	63.7	63.7
82.5°	50.4	47.6	42.7	39.9	38.5
85°	30.8	26.6	22.4	20.3	19.6
87.5°	11.9	9.8	8.4	8.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)