

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: P229701

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229701
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-LD5-35-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2307.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

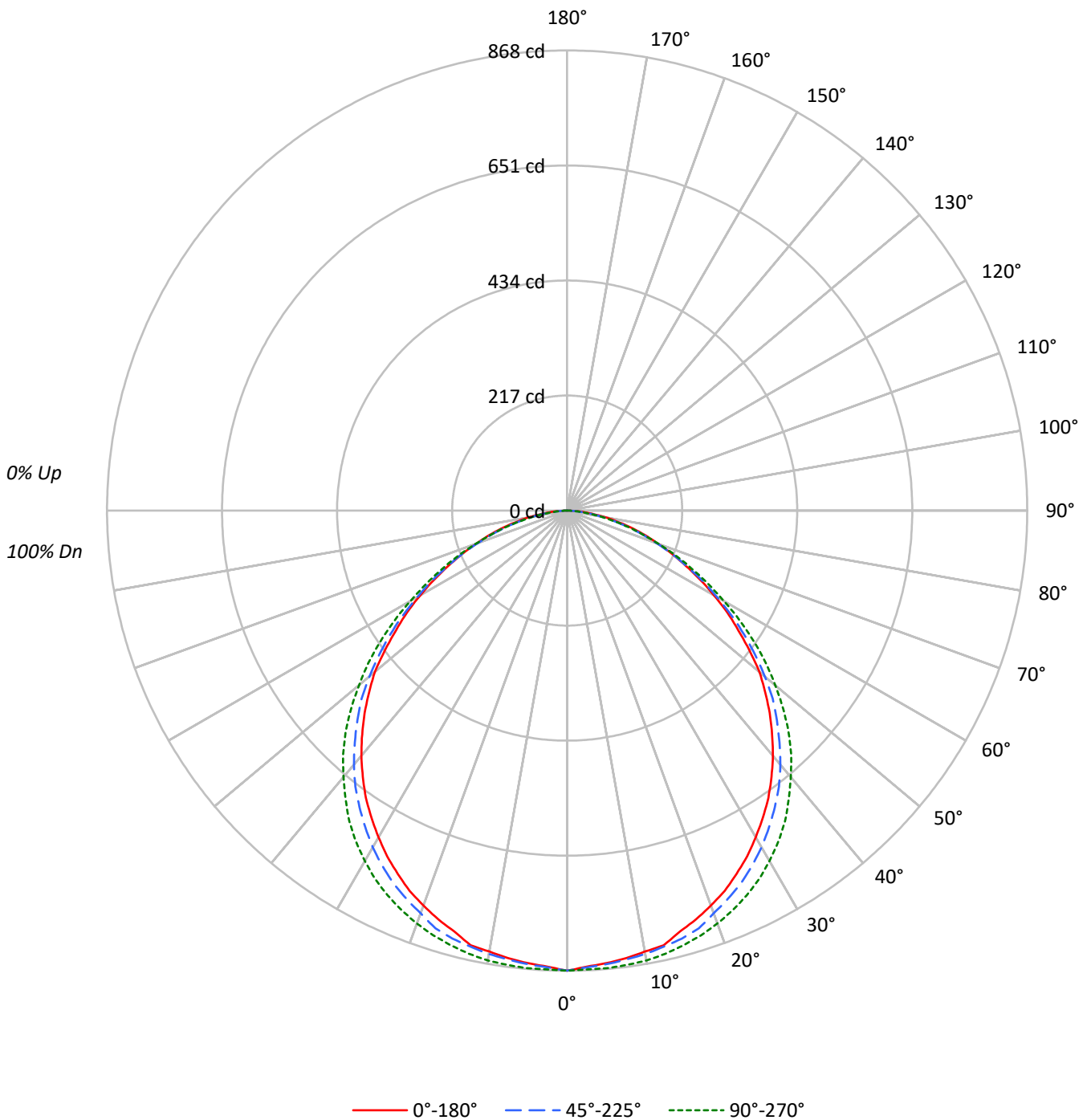
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2779	2779	2779
5°	2755	2761	2785
10°	2747	2762	2802
15°	2726	2771	2814
20°	2702	2755	2825
25°	2671	2741	2830
30°	2631	2712	2823
35°	2587	2670	2800
40°	2524	2615	2744
45°	2447	2534	2676
50°	2359	2427	2552
55°	2202	2274	2400
60°	2050	2089	2189
65°	1876	1892	1970
70°	1700	1673	1718
75°	1553	1444	1460
80°	1383	1182	1145
85°	1102	801	702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.5
10°-20°	235.6	10.2
20°-30°	358.1	15.5
30°-40°	428.6	18.6
40°-50°	432.8	18.8
50°-60°	365.1	15.8
60°-70°	249.3	10.8
70°-80°	126.5	5.5
80°-90°	29.1	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°	675.6	29.3
0°-40°	1104.1	47.9
0°-60°	1902.1	82.4
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	857	857	859	863	866	81
15°	822	826	836	842	849	232
25°	756	763	776	792	801	348
35°	662	667	683	704	716	413
45°	540	543	559	581	591	416
55°	394	394	407	422	430	354
65°	248	244	250	254	260	246
75°	126	118	117	116	118	133
85°	30	26	22	20	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.8	867.8	867.8	867.8	867.8
2.5°	860.9	860.9	862.3	867.1	866.4
5°	856.9	856.9	858.9	863.0	866.4
7.5°	851.4	852.1	854.1	860.3	864.4
10°	844.6	845.3	849.3	855.5	861.6
12.5°	839.8	840.5	842.5	850.0	856.2
15°	822.1	825.5	835.7	841.8	848.7
17.5°	808.4	812.5	826.2	831.6	839.8
20°	792.7	797.5	808.4	820.7	828.9
22.5°	776.4	781.8	792.7	807.1	815.9
25°	755.9	762.7	775.7	792.0	800.9
27.5°	735.4	742.2	755.2	777.7	783.9
30°	711.5	719.0	733.4	755.2	763.4
32.5°	687.0	693.8	708.8	731.3	740.9
35°	661.7	667.2	682.9	704.0	716.3
37.5°	633.1	638.5	656.3	676.8	686.3
40°	603.8	607.8	625.6	646.1	656.3
42.5°	572.4	576.5	592.8	614.0	625.6
45°	540.3	543.0	559.4	581.2	590.8
47.5°	506.2	508.9	526.0	543.7	552.6
50°	473.5	472.1	487.1	503.5	512.3
52.5°	433.2	433.9	446.8	462.5	472.8
55°	394.3	393.6	407.3	422.3	429.8
57.5°	358.2	355.4	367.0	377.3	386.1
60°	320.0	317.2	326.1	337.0	341.8
62.5°	283.1	279.7	288.6	294.7	299.5
65°	247.6	244.2	249.7	254.5	259.9
67.5°	214.2	210.1	214.9	217.6	221.7
70°	181.5	178.1	178.7	182.1	183.5
72.5°	153.5	146.7	147.4	147.4	149.4
75°	125.5	118.0	116.7	116.0	118.0
77.5°	97.6	91.4	89.4	88.7	88.7
80°	75.0	66.9	64.1	62.1	62.1
82.5°	49.1	46.4	41.6	38.9	37.5
85°	30.0	25.9	21.8	19.8	19.1
87.5°	11.6	9.6	8.2	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)