

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: P229675

Luminaire Tested: **22RLN-LD5-25-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

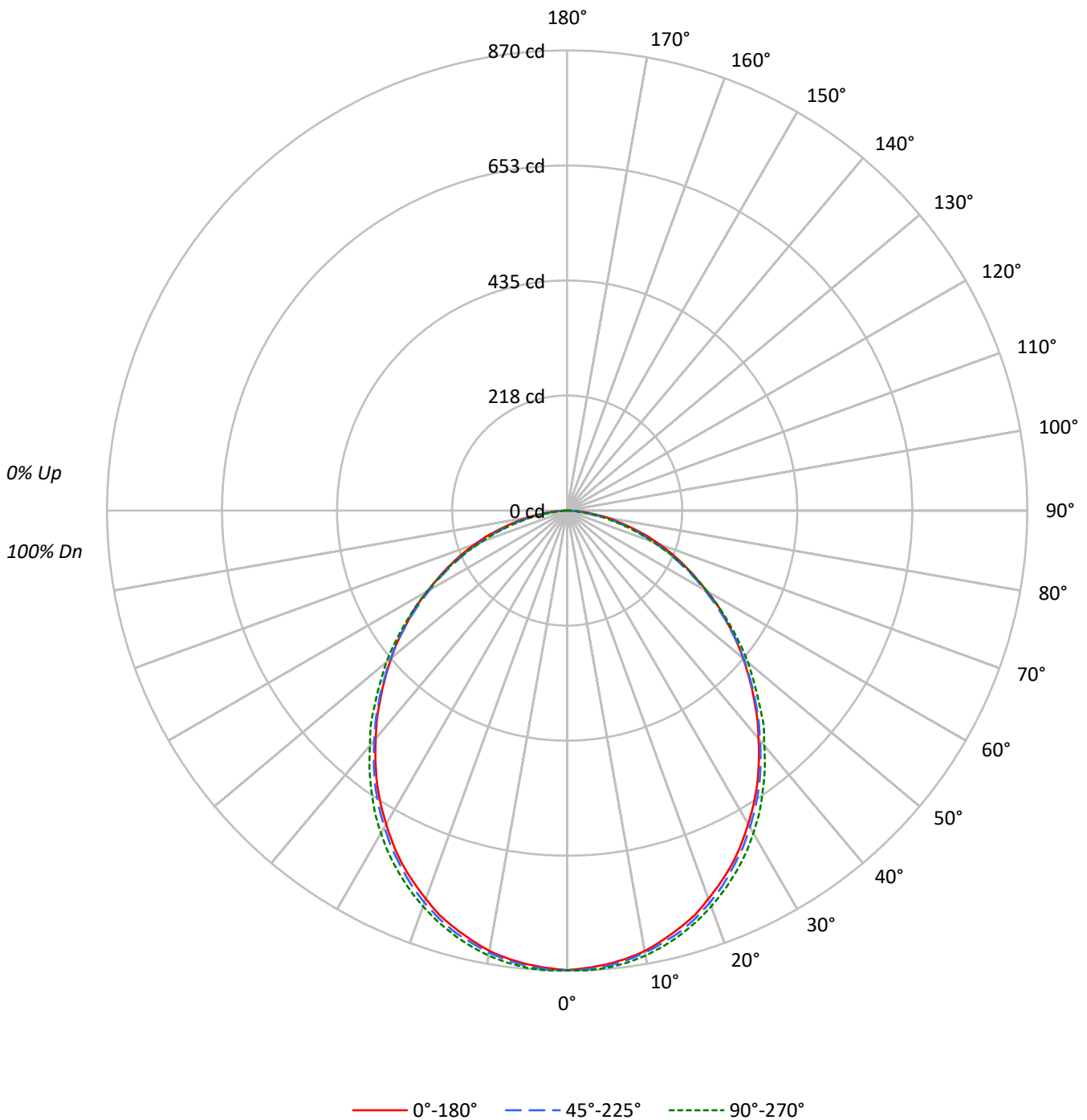
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	87	81	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	82	71	63	57	68	62	56	66	60	55	64	59	55	52																												
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46																												
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40																												
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36																												
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29																												
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2783	2783	2783
5°	2769	2779	2790
10°	2750	2761	2779
15°	2711	2734	2752
20°	2662	2689	2715
25°	2607	2626	2666
30°	2531	2555	2605
35°	2453	2475	2523
40°	2354	2372	2424
45°	2258	2273	2323
50°	2162	2173	2223
55°	2063	2056	2094
60°	1953	1924	1960
65°	1847	1779	1821
70°	1729	1636	1604
75°	1569	1445	1391
80°	1416	1232	1149
85°	1102	860	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.8
10°-20°	232.2	10.7
20°-30°	342.8	15.8
30°-40°	396.4	18.3
40°-50°	388.8	18.0
50°-60°	330.7	15.3
60°-70°	235.6	10.9
70°-80°	125.7	5.8
80°-90°	29.9	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°	657.0	30.4
0°-40°	1053.4	48.7
0°-60°	1772.9	81.9
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	861	862	864	867	868	82
15°	818	819	824	829	830	231
25°	738	739	743	751	754	339
35°	628	625	633	643	645	392
45°	498	497	502	511	513	385
55°	369	366	368	373	375	331
65°	244	236	235	236	240	242
75°	127	120	117	115	112	136
85°	30	27	23	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.0	869.0	869.0	869.0	869.0
2.5°	865.6	866.7	867.8	870.1	870.1
5°	861.2	862.3	864.5	866.7	867.8
7.5°	854.5	854.5	857.8	860.1	862.3
10°	845.6	846.7	848.9	852.3	854.5
12.5°	832.2	834.5	836.7	841.1	843.4
15°	817.8	818.9	824.5	828.9	830.0
17.5°	802.2	802.2	807.8	812.2	814.4
20°	781.1	783.3	788.9	794.4	796.6
22.5°	759.9	762.1	767.7	773.3	776.6
25°	737.7	738.8	743.2	751.0	754.4
27.5°	712.1	714.3	718.8	726.5	731.0
30°	684.3	686.5	690.9	699.8	704.3
32.5°	656.4	658.7	663.1	672.0	676.5
35°	627.5	625.3	633.1	643.1	645.3
37.5°	595.3	596.4	600.8	609.7	614.2
40°	563.0	563.0	567.4	577.5	579.7
42.5°	531.8	530.7	535.2	544.1	549.6
45°	498.5	497.3	501.8	510.7	512.9
47.5°	466.2	464.0	468.4	476.2	478.4
50°	433.9	431.7	436.1	442.8	446.2
52.5°	402.8	398.3	401.7	407.2	410.6
55°	369.4	366.1	368.3	372.7	375.0
57.5°	339.4	332.7	333.8	338.2	340.5
60°	304.9	299.3	300.4	304.9	306.0
62.5°	273.7	268.1	268.1	269.3	271.5
65°	243.7	235.9	234.8	235.9	240.3
67.5°	214.7	206.9	204.7	204.7	205.8
70°	184.7	176.9	174.7	173.6	171.3
72.5°	156.9	146.9	145.8	142.4	143.5
75°	126.8	120.2	116.8	114.6	112.4
77.5°	100.1	94.6	90.1	86.8	86.8
80°	76.8	69.0	66.8	62.3	62.3
82.5°	51.2	47.8	43.4	40.1	38.9
85°	30.0	26.7	23.4	20.0	20.0
87.5°	11.1	8.9	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)