

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: P229693

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229693
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-LD5-25-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

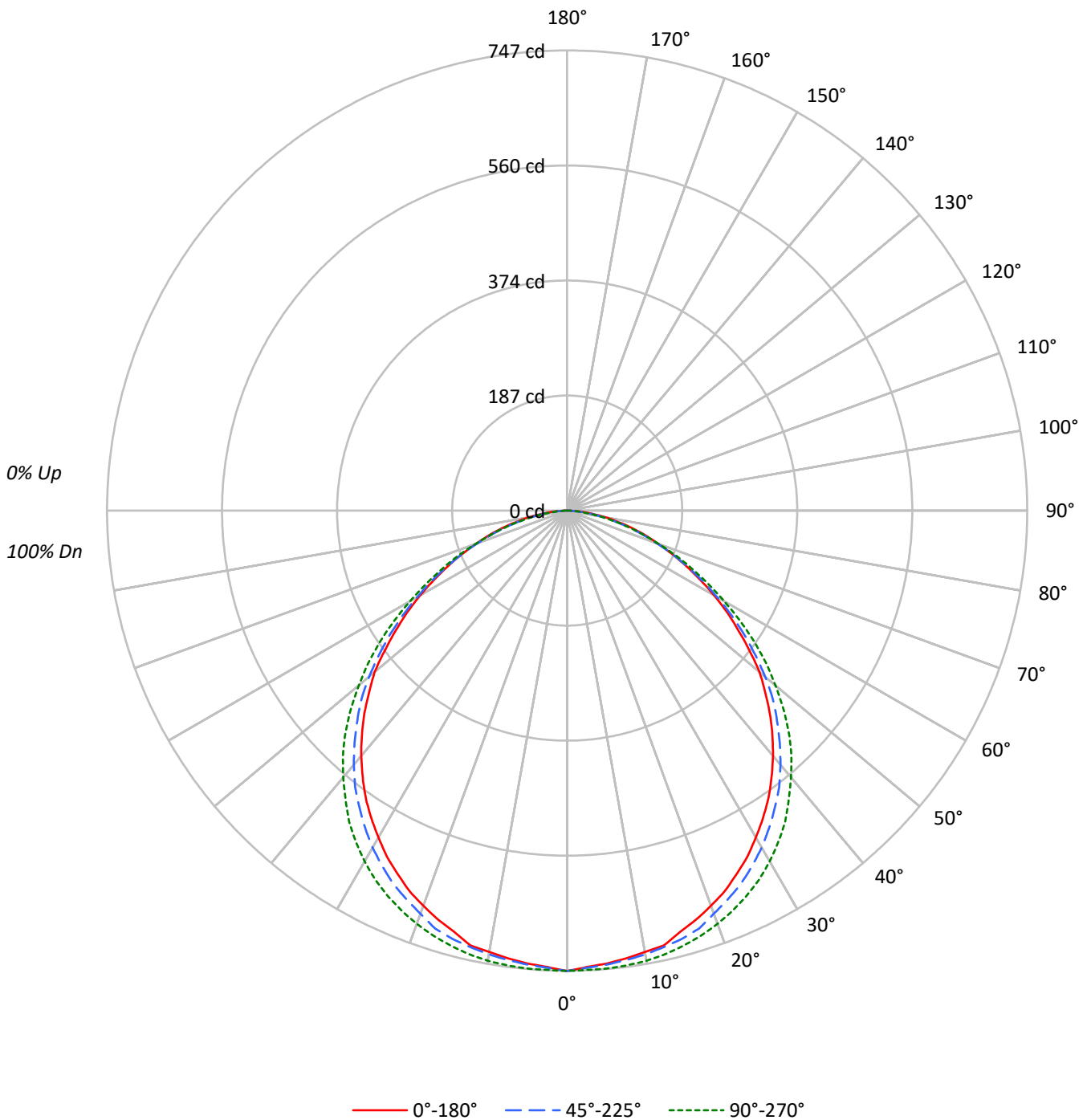
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	2394	2394	2394
5°	2373	2378	2399
10°	2366	2379	2413
15°	2347	2387	2424
20°	2327	2373	2433
25°	2300	2361	2438
30°	2266	2336	2431
35°	2229	2300	2412
40°	2174	2253	2363
45°	2108	2182	2304
50°	2032	2090	2199
55°	1896	1959	2067
60°	1765	1799	1886
65°	1616	1630	1697
70°	1464	1441	1480
75°	1338	1244	1258
80°	1191	1018	987
85°	952	691	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.5
10°-20°	202.9	10.2
20°-30°	308.4	15.5
30°-40°	369.1	18.6
40°-50°	372.8	18.8
50°-60°	314.5	15.8
60°-70°	214.7	10.8
70°-80°	108.9	5.5
80°-90°	25.1	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°	581.9	29.3
0°-40°	951.0	47.9
0°-60°	1638.3	82.4
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	738	738	740	743	746	70
15°	708	711	720	725	731	200
25°	651	657	668	682	690	300
35°	570	575	588	606	617	356
45°	465	468	482	501	509	359
55°	340	339	351	364	370	305
65°	213	210	215	219	224	212
75°	108	102	100	100	102	115
85°	26	22	19	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.4	747.4	747.4	747.4	747.4
2.5°	741.5	741.5	742.7	746.8	746.2
5°	738.0	738.0	739.8	743.3	746.2
7.5°	733.3	733.9	735.7	740.9	744.5
10°	727.4	728.0	731.5	736.8	742.1
12.5°	723.3	723.9	725.7	732.1	737.4
15°	708.0	711.0	719.8	725.1	731.0
17.5°	696.3	699.8	711.6	716.3	723.3
20°	682.8	686.9	696.3	706.9	713.9
22.5°	668.7	673.4	682.8	695.1	702.7
25°	651.0	656.9	668.1	682.2	689.8
27.5°	633.4	639.3	650.5	669.8	675.1
30°	612.8	619.3	631.6	650.5	657.5
32.5°	591.7	597.6	610.5	629.9	638.1
35°	570.0	574.7	588.2	606.4	617.0
37.5°	545.3	550.0	565.3	582.9	591.1
40°	520.0	523.5	538.8	556.4	565.3
42.5°	493.0	496.5	510.6	528.8	538.8
45°	465.4	467.7	481.8	500.6	508.8
47.5°	436.0	438.3	453.0	468.3	475.9
50°	407.8	406.6	419.5	433.6	441.3
52.5°	373.1	373.7	384.9	398.4	407.2
55°	339.6	339.0	350.8	363.7	370.2
57.5°	308.5	306.1	316.1	324.9	332.6
60°	275.6	273.2	280.9	290.3	294.4
62.5°	243.8	240.9	248.5	253.8	257.9
65°	213.3	210.4	215.1	219.2	223.9
67.5°	184.5	181.0	185.1	187.4	191.0
70°	156.3	153.4	153.9	156.9	158.1
72.5°	132.2	126.3	126.9	126.9	128.7
75°	108.1	101.7	100.5	99.9	101.7
77.5°	84.0	78.7	77.0	76.4	76.4
80°	64.6	57.6	55.2	53.5	53.5
82.5°	42.3	40.0	35.8	33.5	32.3
85°	25.9	22.3	18.8	17.0	16.5
87.5°	10.0	8.2	7.1	7.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)