

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: P229621

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229621
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-LD5-25-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: 2062.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

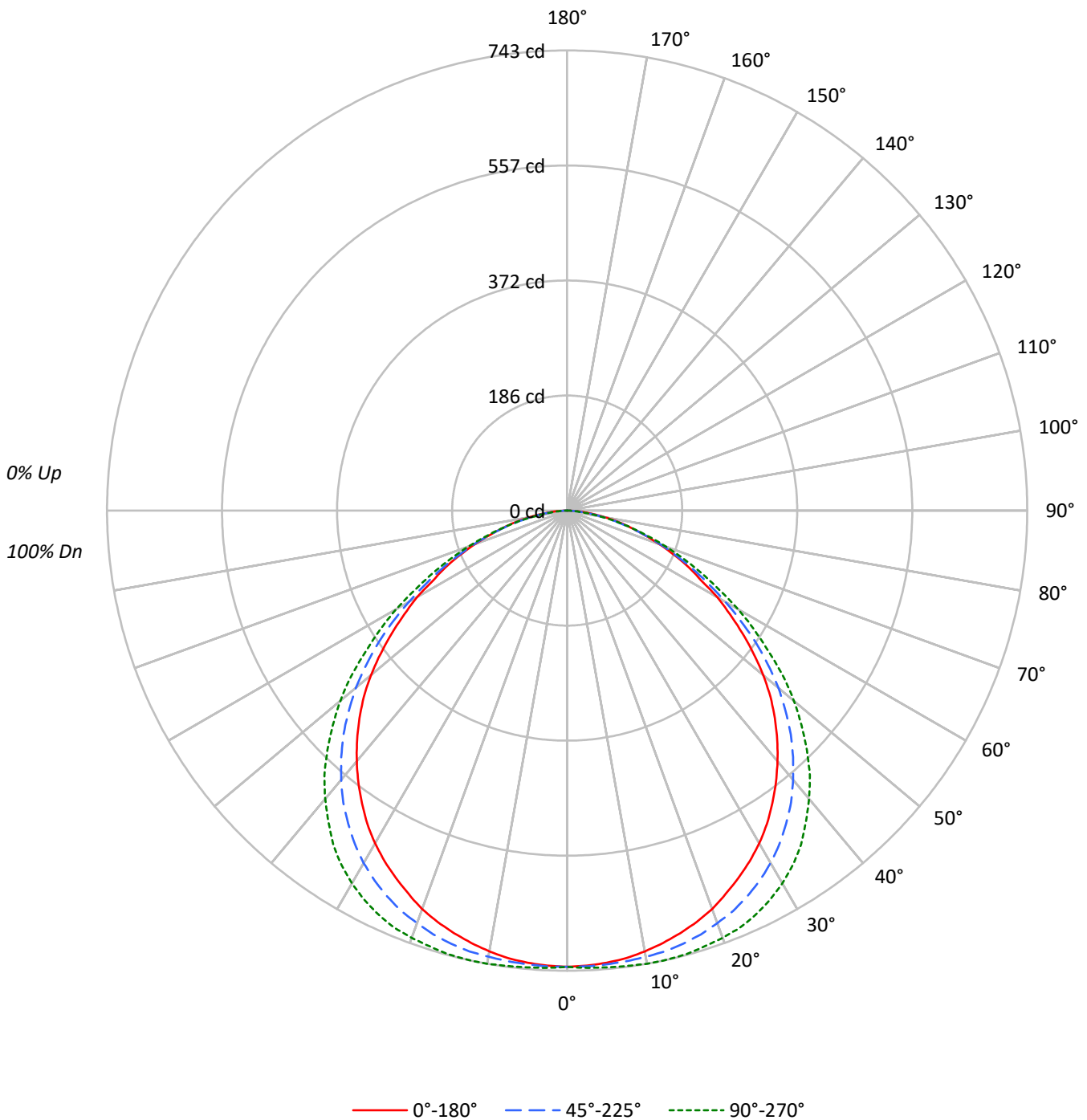
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2359	2359	2359
5°	2356	2364	2380
10°	2350	2379	2416
15°	2342	2400	2459
20°	2334	2416	2502
25°	2313	2429	2545
30°	2295	2430	2570
35°	2258	2411	2574
40°	2210	2373	2541
45°	2148	2313	2479
50°	2061	2218	2382
55°	1930	2078	2218
60°	1793	1890	2044
65°	1644	1701	1816
70°	1488	1511	1582
75°	1310	1279	1326
80°	1140	1048	1000
85°	926	694	603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	204.5	9.9
20°-30°	316.9	15.4
30°-40°	385.6	18.7
40°-50°	392.7	19.0
50°-60°	331.2	16.1
60°-70°	224.0	10.9
70°-80°	112.0	5.4
80°-90°	24.9	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°	591.5	28.7
0°-40°	977.1	47.4
0°-60°	1701.1	82.5
0°-90°	2062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	733	734	735	739	740	70
15°	706	711	724	737	742	199
25°	655	665	687	710	720	302
35°	578	590	617	646	658	361
45°	474	483	511	537	547	365
55°	346	351	372	390	397	309
65°	217	213	224	235	240	214
75°	106	102	103	105	107	114
85°	25	21	19	16	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.6	736.6	736.6	736.6	736.6
2.5°	735.3	735.3	736.6	737.8	739.1
5°	732.8	734.0	735.3	739.1	740.3
7.5°	729.0	730.2	734.0	739.1	741.6
10°	722.7	725.2	731.5	739.1	742.9
12.5°	715.1	718.9	729.0	737.8	742.9
15°	706.3	711.3	723.9	736.6	741.6
17.5°	696.2	702.5	717.6	731.5	737.8
20°	684.8	692.4	708.8	726.5	734.0
22.5°	669.7	679.8	700.0	720.2	729.0
25°	654.6	664.7	687.4	710.1	720.2
27.5°	638.2	649.5	673.5	698.7	708.8
30°	620.5	630.6	657.1	683.6	694.9
32.5°	600.3	610.4	638.2	665.9	678.5
35°	577.6	590.3	616.7	645.7	658.4
37.5°	553.7	565.0	594.0	621.8	633.1
40°	528.5	539.8	567.5	596.6	607.9
42.5°	502.0	513.3	539.8	567.5	580.2
45°	474.2	483.0	510.8	537.3	547.4
47.5°	445.2	451.5	478.0	503.2	513.3
50°	413.7	420.0	445.2	467.9	478.0
52.5°	379.6	384.7	408.6	428.8	440.2
55°	345.6	350.6	372.1	389.7	397.3
57.5°	311.5	314.0	333.0	350.6	358.2
60°	280.0	280.0	295.1	309.0	319.1
62.5°	243.4	247.2	258.6	272.4	276.2
65°	216.9	213.1	224.5	234.6	239.6
67.5°	186.7	184.1	191.7	200.5	203.1
70°	158.9	155.1	161.4	166.5	169.0
72.5°	129.9	128.6	131.2	135.0	136.2
75°	105.9	102.2	103.4	104.7	107.2
77.5°	84.5	78.2	79.5	78.2	79.5
80°	61.8	56.8	56.8	55.5	54.2
82.5°	41.6	39.1	36.6	34.1	32.8
85°	25.2	21.4	18.9	16.4	16.4
87.5°	10.1	7.6	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)