

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: P229609

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229609
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-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

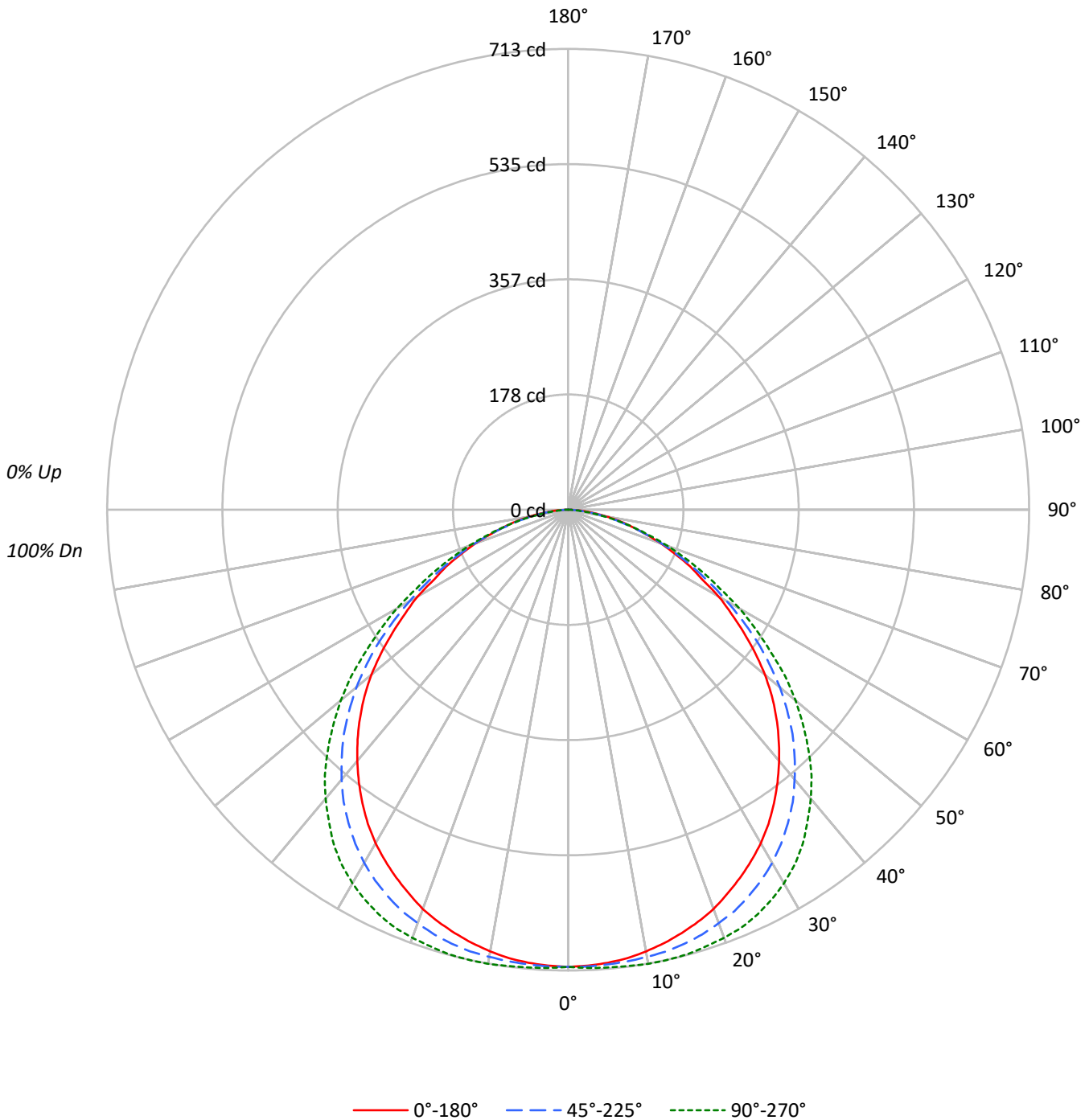
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2265	2265	2265
5°	2262	2270	2285
10°	2257	2284	2320
15°	2249	2305	2361
20°	2241	2320	2402
25°	2221	2332	2444
30°	2203	2333	2468
35°	2169	2315	2472
40°	2121	2278	2440
45°	2063	2222	2381
50°	1979	2130	2287
55°	1853	1995	2130
60°	1722	1815	1963
65°	1578	1634	1744
70°	1429	1451	1520
75°	1258	1229	1273
80°	1094	1005	961
85°	889	669	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	196.4	9.9
20°-30°	304.2	15.4
30°-40°	370.3	18.7
40°-50°	377.1	19.0
50°-60°	318.0	16.1
60°-70°	215.2	10.9
70°-80°	107.5	5.4
80°-90°	23.9	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°	568.0	28.7
0°-40°	938.3	47.4
0°-60°	1633.4	82.5
0°-90°	1980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	704	705	706	710	711	67
15°	678	683	695	707	712	191
25°	628	638	660	682	692	290
35°	555	567	592	620	632	347
45°	455	464	490	516	526	351
55°	332	337	357	374	382	297
65°	208	205	216	225	230	206
75°	102	98	99	100	103	109
85°	24	21	18	16	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.3	707.3	707.3	707.3	707.3
2.5°	706.1	706.1	707.3	708.5	709.7
5°	703.6	704.8	706.1	709.7	710.9
7.5°	700.0	701.2	704.8	709.7	712.1
10°	693.9	696.4	702.4	709.7	713.3
12.5°	686.7	690.3	700.0	708.5	713.3
15°	678.2	683.0	695.2	707.3	712.1
17.5°	668.5	674.6	689.1	702.4	708.5
20°	657.6	664.9	680.6	697.6	704.8
22.5°	643.1	652.8	672.1	691.5	700.0
25°	628.5	638.2	660.0	681.8	691.5
27.5°	612.8	623.7	646.7	670.9	680.6
30°	595.8	605.5	631.0	656.4	667.3
32.5°	576.5	586.2	612.8	639.4	651.6
35°	554.7	566.8	592.2	620.1	632.2
37.5°	531.7	542.6	570.4	597.1	608.0
40°	507.4	518.3	545.0	572.8	583.7
42.5°	482.0	492.9	518.3	545.0	557.1
45°	455.4	463.8	490.5	515.9	525.6
47.5°	427.5	433.6	459.0	483.2	492.9
50°	397.2	403.3	427.5	449.3	459.0
52.5°	364.5	369.4	392.4	411.8	422.7
55°	331.8	336.7	357.3	374.2	381.5
57.5°	299.1	301.6	319.7	336.7	343.9
60°	268.9	268.9	283.4	296.7	306.4
62.5°	233.7	237.4	248.3	261.6	265.2
65°	208.3	204.7	215.6	225.3	230.1
67.5°	179.2	176.8	184.1	192.6	195.0
70°	152.6	149.0	155.0	159.9	162.3
72.5°	124.7	123.5	126.0	129.6	130.8
75°	101.7	98.1	99.3	100.5	102.9
77.5°	81.1	75.1	76.3	75.1	76.3
80°	59.3	54.5	54.5	53.3	52.1
82.5°	40.0	37.5	35.1	32.7	31.5
85°	24.2	20.6	18.2	15.7	15.7
87.5°	9.7	7.3	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)