

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: P229626

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229626
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-LD5-20-RDP-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1357.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

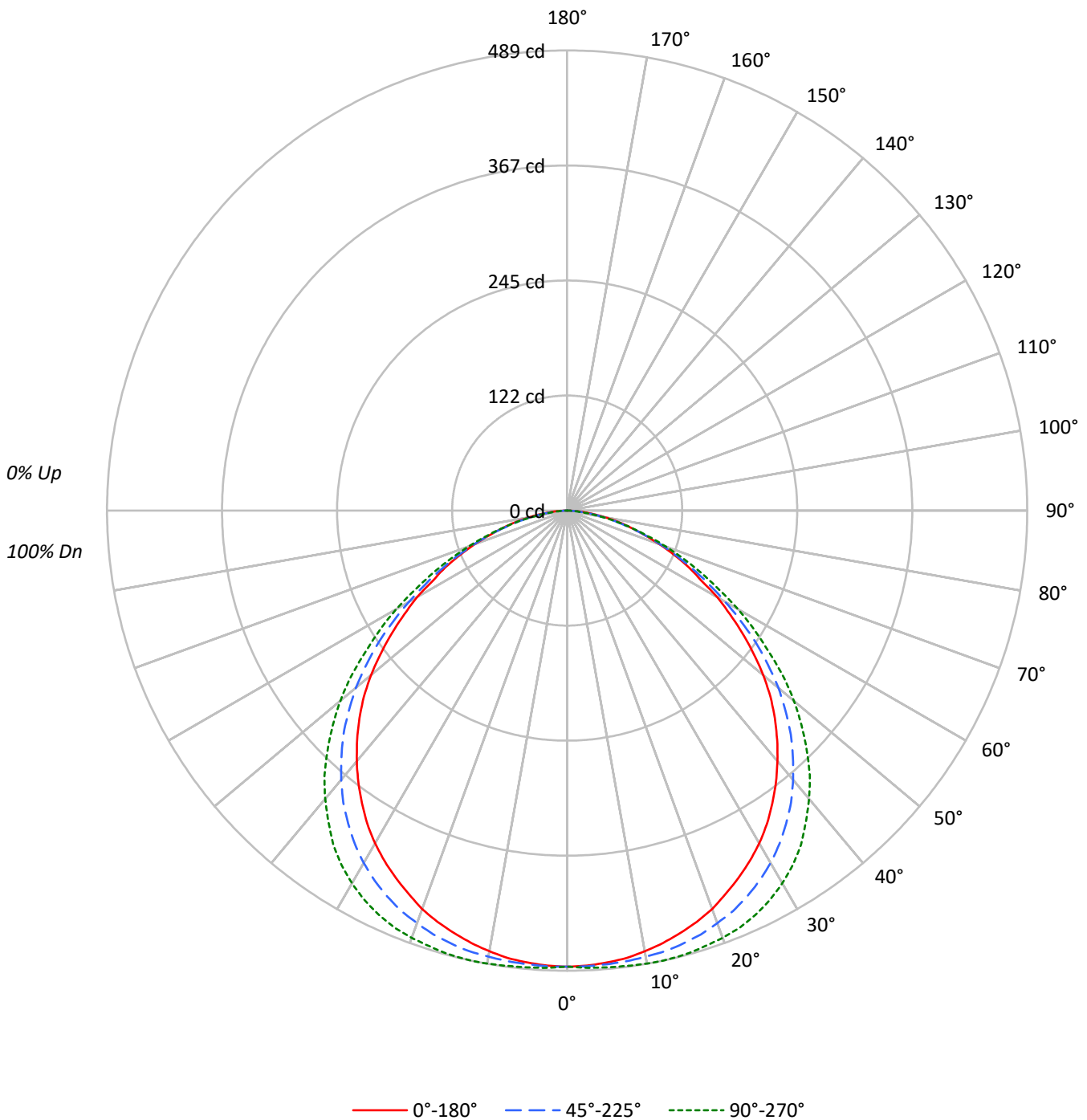
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1552	1552	1552
5°	1550	1556	1566
10°	1547	1566	1590
15°	1541	1580	1618
20°	1536	1590	1646
25°	1522	1599	1675
30°	1510	1599	1691
35°	1486	1587	1694
40°	1454	1561	1673
45°	1414	1523	1631
50°	1356	1460	1567
55°	1270	1367	1460
60°	1180	1244	1345
65°	1082	1119	1195
70°	979	994	1041
75°	862	843	874
80°	751	690	658
85°	610	459	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	3.4
10°-20°	134.6	9.9
20°-30°	208.5	15.4
30°-40°	253.8	18.7
40°-50°	258.5	19.0
50°-60°	218.0	16.1
60°-70°	147.5	10.9
70°-80°	73.7	5.4
80°-90°	16.4	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°	389.3	28.7
0°-40°	643.0	47.4
0°-60°	1119.5	82.5
0°-90°	1357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	482	483	484	486	487	46
15°	465	468	476	485	488	131
25°	431	437	452	467	474	199
35°	380	388	406	425	433	238
45°	312	318	336	354	360	240
55°	227	231	245	256	262	203
65°	143	140	148	154	158	141
75°	70	67	68	69	71	75
85°	17	14	12	11	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.7	484.7	484.7	484.7	484.7
2.5°	483.9	483.9	484.7	485.6	486.4
5°	482.2	483.1	483.9	486.4	487.2
7.5°	479.7	480.6	483.1	486.4	488.0
10°	475.6	477.3	481.4	486.4	488.9
12.5°	470.6	473.1	479.7	485.6	488.9
15°	464.8	468.1	476.4	484.7	488.0
17.5°	458.2	462.3	472.3	481.4	485.6
20°	450.7	455.7	466.5	478.1	483.1
22.5°	440.7	447.4	460.7	473.9	479.7
25°	430.8	437.4	452.4	467.3	473.9
27.5°	420.0	427.5	443.2	459.8	466.5
30°	408.4	415.0	432.4	449.9	457.3
32.5°	395.1	401.7	420.0	438.2	446.5
35°	380.1	388.4	405.9	425.0	433.3
37.5°	364.4	371.8	390.9	409.2	416.7
40°	347.8	355.2	373.5	392.6	400.1
42.5°	330.3	337.8	355.2	373.5	381.8
45°	312.1	317.9	336.2	353.6	360.2
47.5°	293.0	297.1	314.6	331.2	337.8
50°	272.2	276.4	293.0	307.9	314.6
52.5°	249.8	253.2	268.9	282.2	289.7
55°	227.4	230.7	244.9	256.5	261.5
57.5°	205.0	206.7	219.1	230.7	235.7
60°	184.3	184.3	194.2	203.4	210.0
62.5°	160.2	162.7	170.2	179.3	181.8
65°	142.8	140.3	147.7	154.4	157.7
67.5°	122.8	121.2	126.2	132.0	133.6
70°	104.6	102.1	106.2	109.6	111.2
72.5°	85.5	84.7	86.3	88.8	89.6
75°	69.7	67.2	68.1	68.9	70.6
77.5°	55.6	51.5	52.3	51.5	52.3
80°	40.7	37.4	37.4	36.5	35.7
82.5°	27.4	25.7	24.1	22.4	21.6
85°	16.6	14.1	12.5	10.8	10.8
87.5°	6.6	5.0	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)