

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: P296630

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
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-L93050-W2A1-U-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1555.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

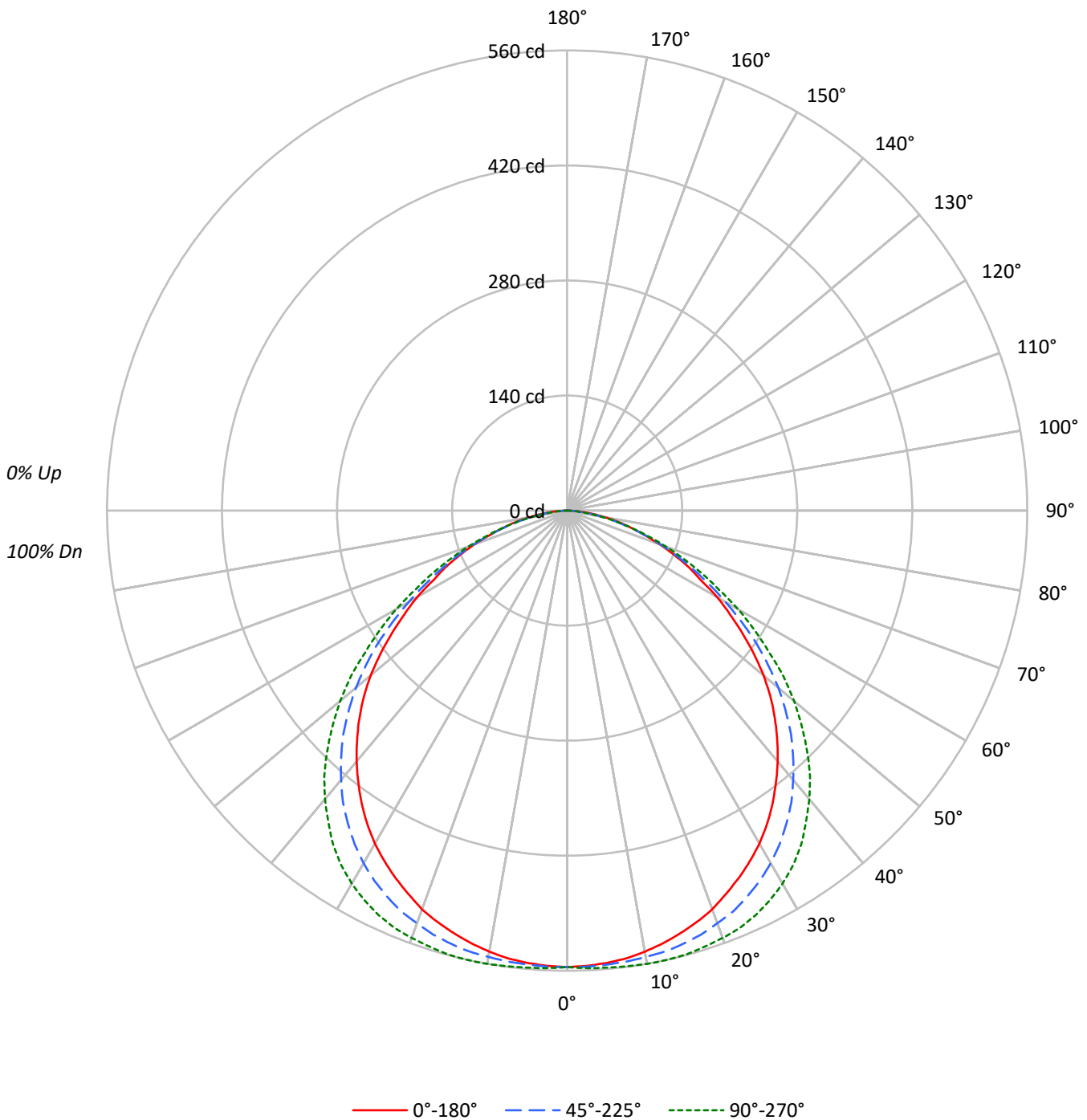
Input Watts (W): 19.344  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1495	1495	1495
5°	1493	1498	1508
10°	1489	1507	1531
15°	1484	1521	1558
20°	1479	1531	1585
25°	1466	1539	1613
30°	1454	1540	1629
35°	1431	1528	1631
40°	1400	1503	1610
45°	1361	1466	1571
50°	1306	1405	1509
55°	1223	1316	1406
60°	1136	1198	1295
65°	1042	1078	1151
70°	943	958	1002
75°	831	811	840
80°	722	663	634
85°	587	442	383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	3.4
10°-20°	154.2	9.9
20°-30°	238.9	15.4
30°-40°	290.8	18.7
40°-50°	296.2	19.0
50°-60°	249.8	16.1
60°-70°	169.0	10.9
70°-80°	84.4	5.4
80°-90°	18.8	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°	446.1	28.7
0°-40°	736.9	47.4
0°-60°	1282.8	82.5
0°-90°	1555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	553	554	554	557	558	53
15°	533	536	546	556	559	150
25°	494	501	518	536	543	228
35°	436	445	465	487	496	272
45°	358	364	385	405	413	275
55°	261	264	281	294	300	233
65°	164	161	169	177	181	162
75°	80	77	78	79	81	86
85°	19	16	14	12	12	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	555.5	555.5	555.5	555.5	555.5
2.5°	554.5	554.5	555.5	556.4	557.4
5°	552.6	553.5	554.5	557.4	558.3
7.5°	549.7	550.7	553.5	557.4	559.3
10°	545.0	546.9	551.6	557.4	560.2
12.5°	539.3	542.1	549.7	556.4	560.2
15°	532.6	536.4	545.9	555.5	559.3
17.5°	525.0	529.8	541.2	551.6	556.4
20°	516.5	522.2	534.5	547.8	553.5
22.5°	505.0	512.7	527.9	543.1	549.7
25°	493.6	501.2	518.4	535.5	543.1
27.5°	481.3	489.8	507.9	526.9	534.5
30°	467.9	475.6	495.5	515.5	524.1
32.5°	452.7	460.3	481.3	502.2	511.7
35°	435.6	445.1	465.1	487.0	496.5
37.5°	417.5	426.1	448.0	468.9	477.5
40°	398.5	407.1	428.0	449.9	458.4
42.5°	378.5	387.1	407.1	428.0	437.5
45°	357.6	364.3	385.2	405.2	412.8
47.5°	335.7	340.5	360.5	379.5	387.1
50°	312.0	316.7	335.7	352.9	360.5
52.5°	286.3	290.1	308.2	323.4	331.9
55°	260.6	264.4	280.6	293.9	299.6
57.5°	234.9	236.8	251.1	264.4	270.1
60°	211.1	211.1	222.6	233.0	240.6
62.5°	183.6	186.4	195.0	205.4	208.3
65°	163.6	160.7	169.3	176.9	180.7
67.5°	140.8	138.9	144.6	151.2	153.1
70°	119.8	117.0	121.7	125.5	127.4
72.5°	98.0	97.0	98.9	101.8	102.7
75°	79.9	77.0	78.0	78.9	80.8
77.5°	63.7	59.0	59.9	59.0	59.9
80°	46.6	42.8	42.8	41.8	40.9
82.5°	31.4	29.5	27.6	25.7	24.7
85°	19.0	16.2	14.3	12.4	12.4
87.5°	7.6	5.7	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)