

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: P296635

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296635  
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-LD5-31-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: 1984.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

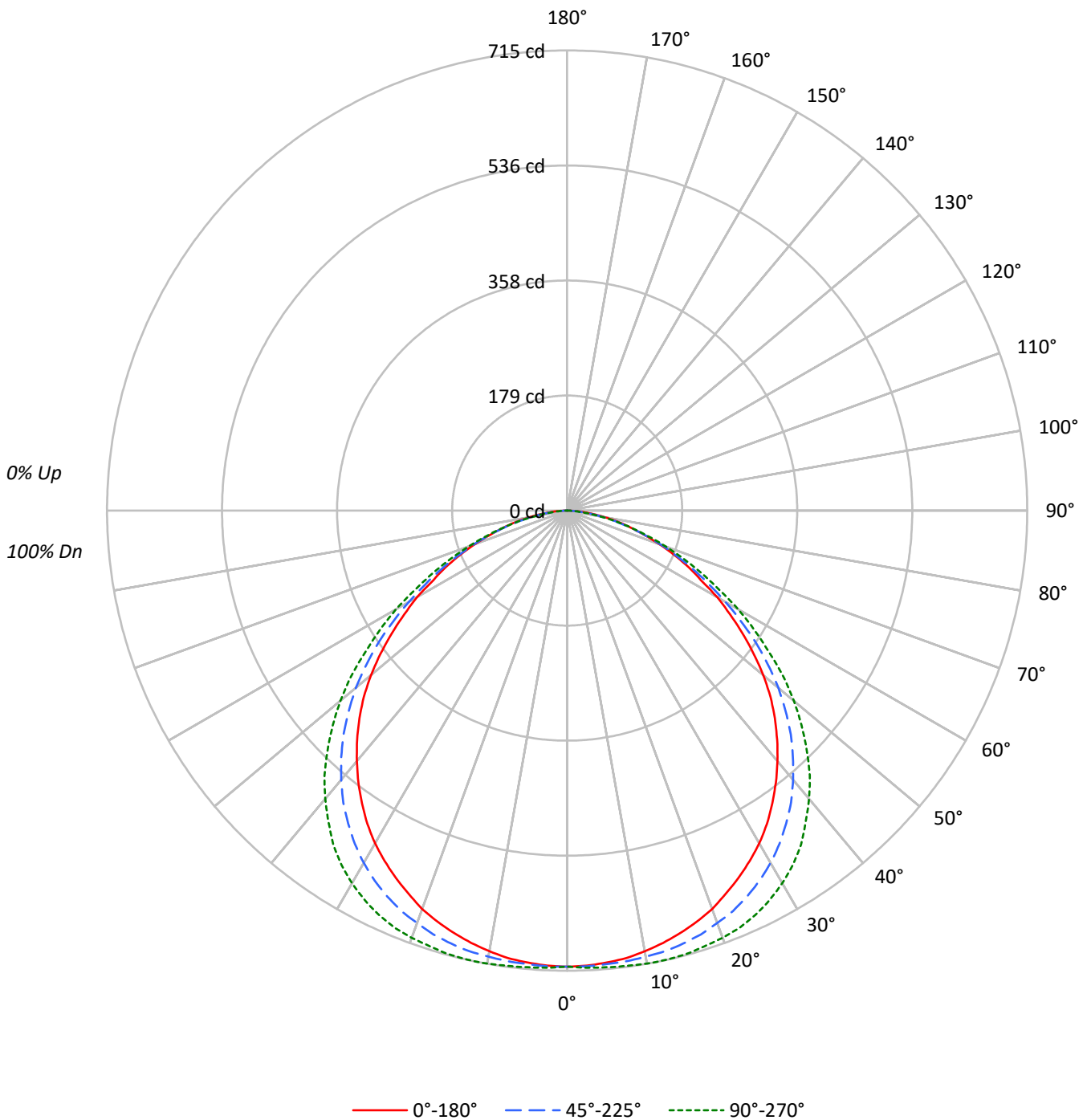
Input Watts (W): 25.017  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1907	1907	1907
5°	1905	1911	1924
10°	1900	1923	1953
15°	1893	1941	1988
20°	1887	1953	2023
25°	1870	1964	2057
30°	1855	1964	2078
35°	1826	1949	2081
40°	1786	1918	2055
45°	1737	1870	2004
50°	1666	1793	1925
55°	1560	1680	1794
60°	1450	1528	1652
65°	1329	1375	1468
70°	1203	1222	1279
75°	1059	1035	1072
80°	922	846	809
85°	750	562	488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	3.4
10°-20°	196.8	9.9
20°-30°	304.9	15.4
30°-40°	371.0	18.7
40°-50°	377.9	19.0
50°-60°	318.7	16.1
60°-70°	215.6	10.9
70°-80°	107.7	5.4
80°-90°	24.0	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°	569.1	28.7
0°-40°	940.2	47.4
0°-60°	1636.8	82.5
0°-90°	1984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	706	708	711	712	67
15°	680	684	697	709	714	192
25°	630	640	661	683	693	290
35°	556	568	593	621	634	347
45°	456	465	492	517	527	351
55°	332	337	358	375	382	297
65°	209	205	216	226	231	206
75°	102	98	100	101	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°	708.7	708.7	708.7	708.7	708.7
2.5°	707.5	707.5	708.7	709.9	711.1
5°	705.1	706.3	707.5	711.1	712.3
7.5°	701.4	702.6	706.3	711.1	713.5
10°	695.3	697.8	703.8	711.1	714.8
12.5°	688.1	691.7	701.4	709.9	714.8
15°	679.6	684.4	696.6	708.7	713.5
17.5°	669.9	675.9	690.5	703.8	709.9
20°	658.9	666.2	682.0	699.0	706.3
22.5°	644.4	654.1	673.5	692.9	701.4
25°	629.8	639.5	661.4	683.2	692.9
27.5°	614.0	625.0	648.0	672.3	682.0
30°	597.0	606.8	632.2	657.7	668.6
32.5°	577.6	587.3	614.0	640.7	652.9
35°	555.8	567.9	593.4	621.3	633.5
37.5°	532.7	543.7	571.6	598.3	609.2
40°	508.5	519.4	546.1	574.0	584.9
42.5°	483.0	493.9	519.4	546.1	558.2
45°	456.3	464.8	491.5	517.0	526.7
47.5°	428.4	434.4	459.9	484.2	493.9
50°	398.0	404.1	428.4	450.2	459.9
52.5°	365.3	370.1	393.2	412.6	423.5
55°	332.5	337.4	358.0	375.0	382.3
57.5°	299.7	302.2	320.4	337.4	344.6
60°	269.4	269.4	284.0	297.3	307.0
62.5°	234.2	237.8	248.8	262.1	265.8
65°	208.7	205.1	216.0	225.7	230.6
67.5°	179.6	177.2	184.5	192.9	195.4
70°	152.9	149.3	155.3	160.2	162.6
72.5°	125.0	123.8	126.2	129.8	131.1
75°	101.9	98.3	99.5	100.7	103.1
77.5°	81.3	75.2	76.5	75.2	76.5
80°	59.5	54.6	54.6	53.4	52.2
82.5°	40.0	37.6	35.2	32.8	31.6
85°	24.3	20.6	18.2	15.8	15.8
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)