

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: P296650

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296650  
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-LD5-44-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: 2767.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

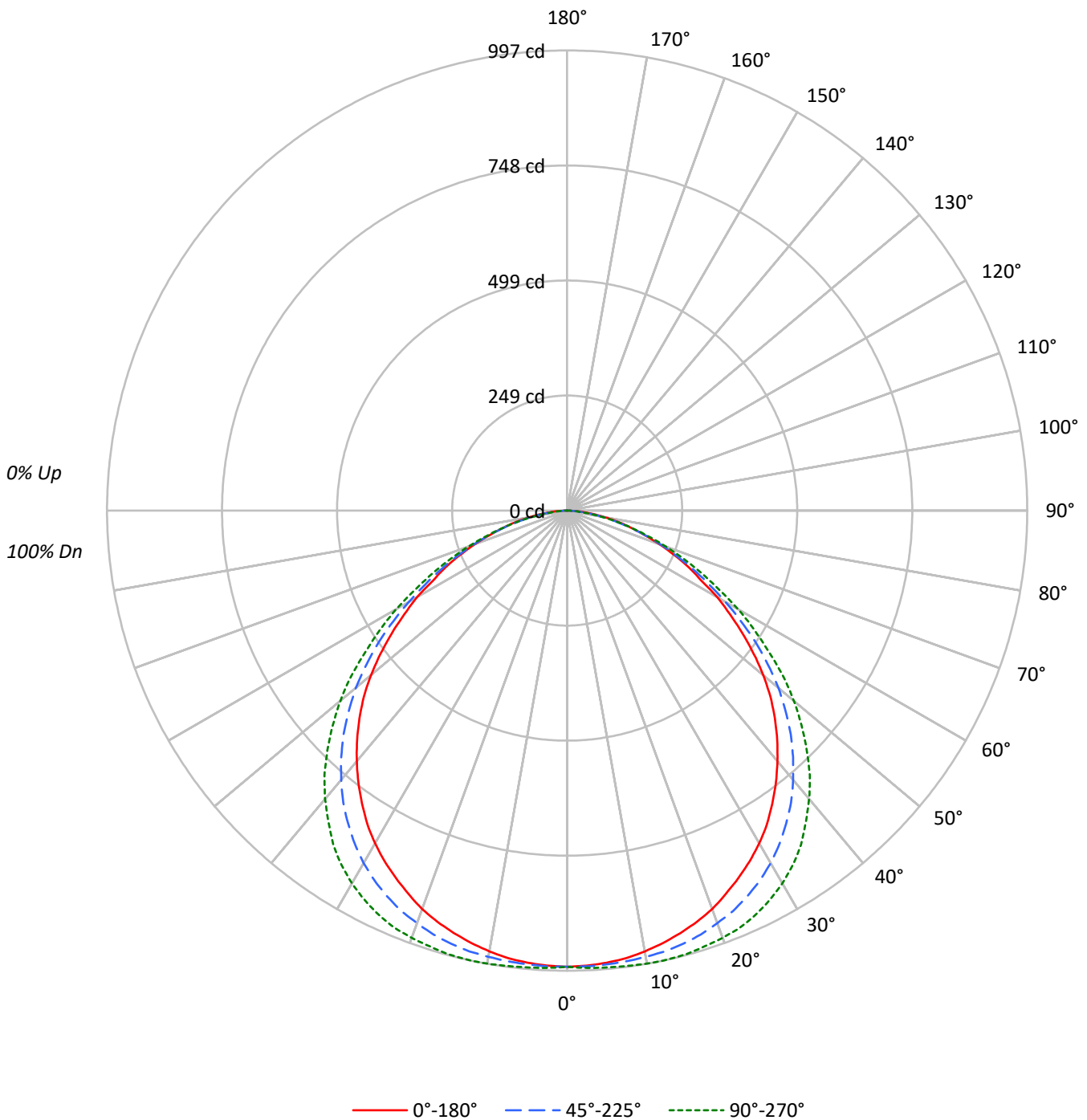
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2660	2660	2660
5°	2656	2665	2684
10°	2650	2682	2724
15°	2640	2707	2773
20°	2632	2724	2821
25°	2608	2739	2869
30°	2587	2740	2898
35°	2546	2719	2902
40°	2491	2675	2866
45°	2422	2608	2795
50°	2324	2501	2685
55°	2175	2343	2501
60°	2022	2131	2305
65°	1854	1918	2048
70°	1677	1704	1784
75°	1478	1443	1496
80°	1285	1181	1128
85°	1044	784	679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.4
10°-20°	274.4	9.9
20°-30°	425.2	15.4
30°-40°	517.5	18.7
40°-50°	527.0	19.0
50°-60°	444.4	16.1
60°-70°	300.6	10.9
70°-80°	150.2	5.4
80°-90°	33.4	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°	793.7	28.7
0°-40°	1311.2	47.4
0°-60°	2282.7	82.5
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	983	985	987	992	994	93
15°	948	954	972	988	995	268
25°	878	892	922	953	966	405
35°	775	792	828	866	884	484
45°	636	648	685	721	734	490
55°	464	470	499	523	533	415
65°	291	286	301	315	322	288
75°	142	137	139	140	144	152
85°	34	29	25	22	22	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.4	988.4	988.4	988.4	988.4
2.5°	986.7	986.7	988.4	990.1	991.8
5°	983.3	985.0	986.7	991.8	993.5
7.5°	978.2	979.9	985.0	991.8	995.2
10°	969.8	973.1	981.6	991.8	996.8
12.5°	959.6	964.7	978.2	990.1	996.8
15°	947.8	954.5	971.5	988.4	995.2
17.5°	934.2	942.7	963.0	981.6	990.1
20°	919.0	929.1	951.1	974.8	985.0
22.5°	898.7	912.2	939.3	966.4	978.2
25°	878.4	891.9	922.4	952.8	966.4
27.5°	856.4	871.6	903.8	937.6	951.1
30°	832.7	846.2	881.8	917.3	932.5
32.5°	805.6	819.1	856.4	893.6	910.5
35°	775.1	792.1	827.6	866.5	883.5
37.5°	743.0	758.2	797.1	834.4	849.6
40°	709.1	724.4	761.6	800.5	815.8
42.5°	673.6	688.8	724.4	761.6	778.5
45°	636.4	648.2	685.4	721.0	734.5
47.5°	597.4	605.9	641.4	675.3	688.8
50°	555.1	563.6	597.4	627.9	641.4
52.5°	509.4	516.2	548.3	575.4	590.7
55°	463.7	470.5	499.3	523.0	533.1
57.5°	418.0	421.4	446.8	470.5	480.7
60°	375.7	375.7	396.0	414.6	428.2
62.5°	326.6	331.7	346.9	365.6	370.6
65°	291.1	286.0	301.3	314.8	321.6
67.5°	250.5	247.1	257.3	269.1	272.5
70°	213.2	208.2	216.6	223.4	226.8
72.5°	174.3	172.6	176.0	181.1	182.8
75°	142.2	137.1	138.8	140.5	143.9
77.5°	113.4	104.9	106.6	104.9	106.6
80°	82.9	76.2	76.2	74.5	72.8
82.5°	55.9	52.5	49.1	45.7	44.0
85°	33.8	28.8	25.4	22.0	22.0
87.5°	13.5	10.2	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)