

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: P296702

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296702  
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-L92765-W2A1-U-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3043.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

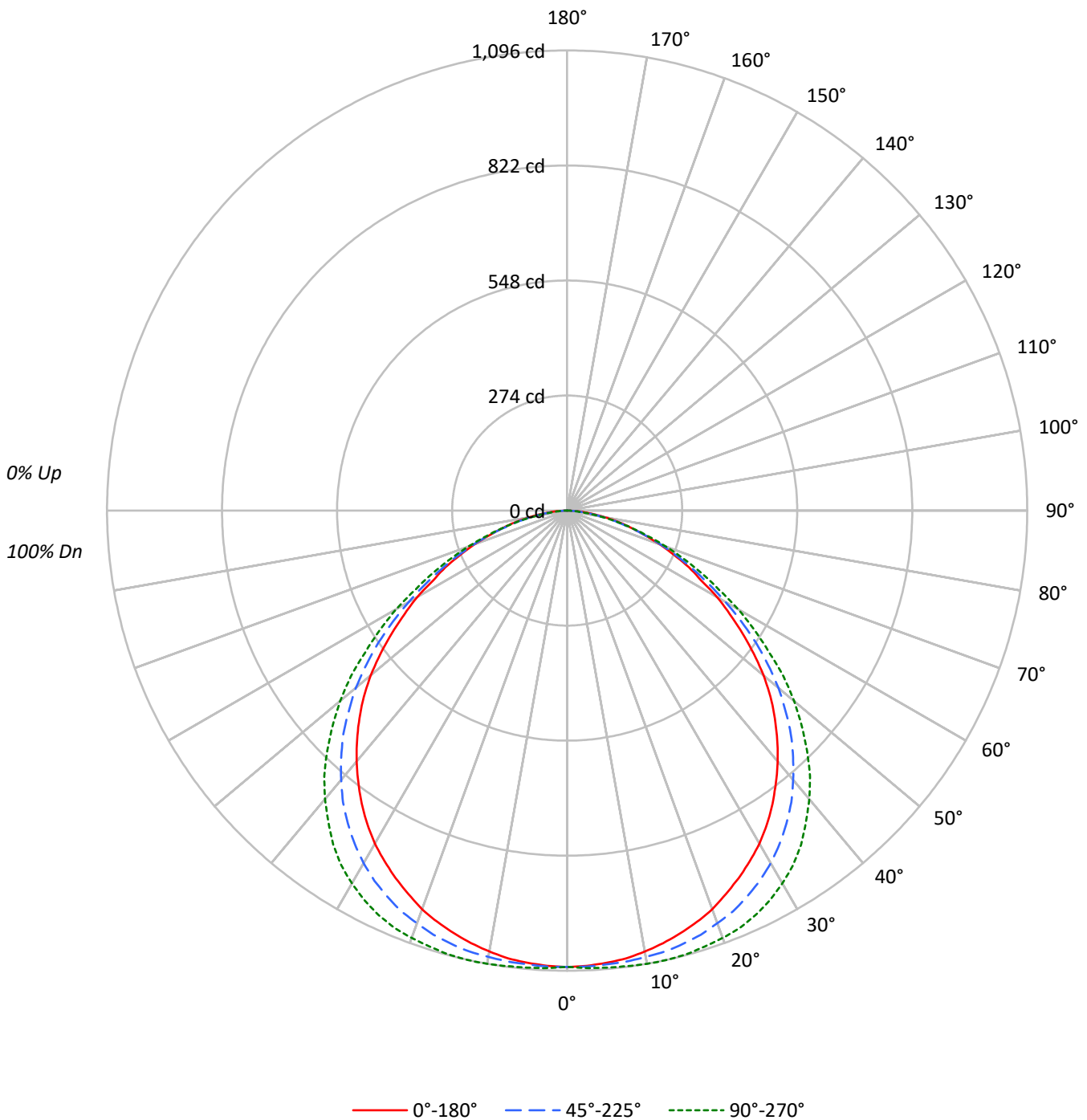
Input Watts (W): 35.712  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2925	2925	2925
5°	2921	2931	2951
10°	2914	2950	2996
15°	2904	2976	3049
20°	2894	2995	3102
25°	2868	3012	3156
30°	2845	3013	3187
35°	2801	2990	3192
40°	2740	2942	3151
45°	2663	2869	3074
50°	2556	2750	2953
55°	2393	2576	2751
60°	2224	2344	2534
65°	2038	2110	2252
70°	1845	1874	1962
75°	1625	1587	1645
80°	1413	1299	1240
85°	1149	861	747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	3.4
10°-20°	301.8	9.9
20°-30°	467.6	15.4
30°-40°	569.1	18.7
40°-50°	579.6	19.0
50°-60°	488.8	16.1
60°-70°	330.6	10.9
70°-80°	165.2	5.4
80°-90°	36.8	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°	872.9	28.7
0°-40°	1442.0	47.4
0°-60°	2510.4	82.5
0°-90°	3043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1081	1083	1085	1091	1093	103
15°	1042	1050	1068	1087	1094	294
25°	966	981	1014	1048	1063	445
35°	852	871	910	953	972	533
45°	700	713	754	793	808	539
55°	510	517	549	575	586	456
65°	320	315	331	346	354	316
75°	156	151	153	154	158	168
85°	37	32	28	24	24	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1085.1	1085.1	1087.0	1088.8	1090.7
5°	1081.4	1083.2	1085.1	1090.7	1092.6
7.5°	1075.8	1077.7	1083.2	1090.7	1094.4
10°	1066.5	1070.2	1079.5	1090.7	1096.3
12.5°	1055.3	1060.9	1075.8	1088.8	1096.3
15°	1042.3	1049.7	1068.4	1087.0	1094.4
17.5°	1027.4	1036.7	1059.1	1079.5	1088.8
20°	1010.7	1021.8	1046.0	1072.1	1083.2
22.5°	988.3	1003.2	1033.0	1062.8	1075.8
25°	966.0	980.9	1014.4	1047.9	1062.8
27.5°	941.8	958.5	993.9	1031.1	1046.0
30°	915.7	930.6	969.7	1008.8	1025.5
32.5°	886.0	900.8	941.8	982.7	1001.4
35°	852.5	871.1	910.2	953.0	971.6
37.5°	817.1	833.8	876.6	917.6	934.3
40°	779.9	796.6	837.6	880.4	897.1
42.5°	740.8	757.5	796.6	837.6	856.2
45°	699.8	712.9	753.8	792.9	807.8
47.5°	657.0	666.3	705.4	742.6	757.5
50°	610.5	619.8	657.0	690.5	705.4
52.5°	560.2	567.7	603.0	632.8	649.6
55°	510.0	517.4	549.1	575.1	586.3
57.5°	459.7	463.5	491.4	517.4	528.6
60°	413.2	413.2	435.5	456.0	470.9
62.5°	359.2	364.8	381.6	402.0	407.6
65°	320.1	314.6	331.3	346.2	353.6
67.5°	275.5	271.7	282.9	295.9	299.7
70°	234.5	228.9	238.2	245.7	249.4
72.5°	191.7	189.8	193.6	199.2	201.0
75°	156.3	150.8	152.6	154.5	158.2
77.5°	124.7	115.4	117.3	115.4	117.3
80°	91.2	83.8	83.8	81.9	80.0
82.5°	61.4	57.7	54.0	50.3	48.4
85°	37.2	31.6	27.9	24.2	24.2
87.5°	14.9	11.2	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)