

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: P296700

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296700  
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-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2787.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

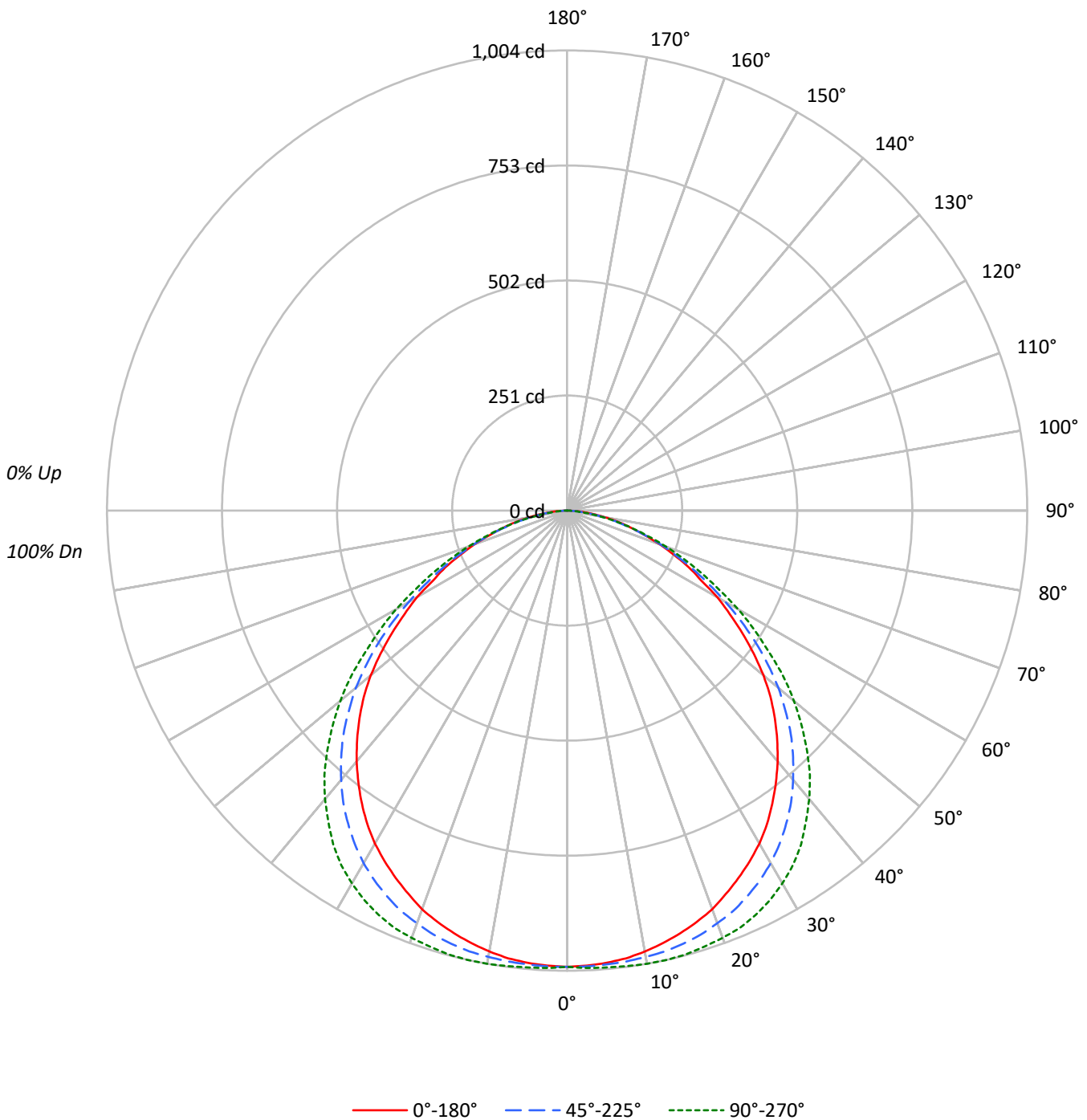
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2679	2679	2679
5°	2675	2685	2703
10°	2669	2702	2743
15°	2659	2726	2792
20°	2651	2743	2841
25°	2627	2758	2890
30°	2606	2760	2919
35°	2565	2738	2923
40°	2509	2695	2886
45°	2439	2627	2815
50°	2341	2519	2705
55°	2191	2359	2519
60°	2037	2147	2321
65°	1867	1932	2062
70°	1690	1717	1797
75°	1489	1454	1507
80°	1294	1189	1136
85°	1053	790	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	3.4
10°-20°	276.4	9.9
20°-30°	428.3	15.4
30°-40°	521.2	18.7
40°-50°	530.8	19.0
50°-60°	447.7	16.1
60°-70°	302.8	10.9
70°-80°	151.3	5.4
80°-90°	33.7	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°	799.5	28.7
0°-40°	1320.7	47.4
0°-60°	2299.2	82.5
0°-90°	2787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	990	992	994	999	1001	94
15°	955	961	978	996	1002	269
25°	885	898	929	960	973	408
35°	781	798	834	873	890	488
45°	641	653	690	726	740	494
55°	467	474	503	527	537	418
65°	293	288	303	317	324	290
75°	143	138	140	142	145	153
85°	34	29	26	22	22	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.5	995.5	995.5	995.5	995.5
2.5°	993.8	993.8	995.5	997.2	998.9
5°	990.4	992.1	993.8	998.9	1000.6
7.5°	985.3	987.0	992.1	998.9	1002.3
10°	976.8	980.2	988.7	998.9	1004.0
12.5°	966.5	971.7	985.3	997.2	1004.0
15°	954.6	961.4	978.5	995.5	1002.3
17.5°	941.0	949.5	970.0	988.7	997.2
20°	925.6	935.9	958.0	981.9	992.1
22.5°	905.2	918.8	946.1	973.4	985.3
25°	884.7	898.4	929.0	959.7	973.4
27.5°	862.6	877.9	910.3	944.4	958.0
30°	838.7	852.3	888.1	923.9	939.3
32.5°	811.4	825.1	862.6	900.1	917.1
35°	780.7	797.8	833.6	872.8	889.8
37.5°	748.3	763.7	802.9	840.4	855.7
40°	714.3	729.6	767.1	806.3	821.6
42.5°	678.5	693.8	729.6	767.1	784.1
45°	641.0	652.9	690.4	726.2	739.8
47.5°	601.7	610.3	646.1	680.2	693.8
50°	559.1	567.7	601.7	632.4	646.1
52.5°	513.1	519.9	552.3	579.6	594.9
55°	467.1	473.9	502.9	526.7	537.0
57.5°	421.1	424.5	450.0	473.9	484.1
60°	378.4	378.4	398.9	417.6	431.3
62.5°	329.0	334.1	349.5	368.2	373.3
65°	293.2	288.1	303.4	317.1	323.9
67.5°	252.3	248.9	259.1	271.0	274.5
70°	214.8	209.7	218.2	225.0	228.4
72.5°	175.6	173.9	177.3	182.4	184.1
75°	143.2	138.1	139.8	141.5	144.9
77.5°	114.2	105.7	107.4	105.7	107.4
80°	83.5	76.7	76.7	75.0	73.3
82.5°	56.3	52.8	49.4	46.0	44.3
85°	34.1	29.0	25.6	22.2	22.2
87.5°	13.6	10.2	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)