

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: P296691

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296691  
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-LD5-40-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: 2545.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

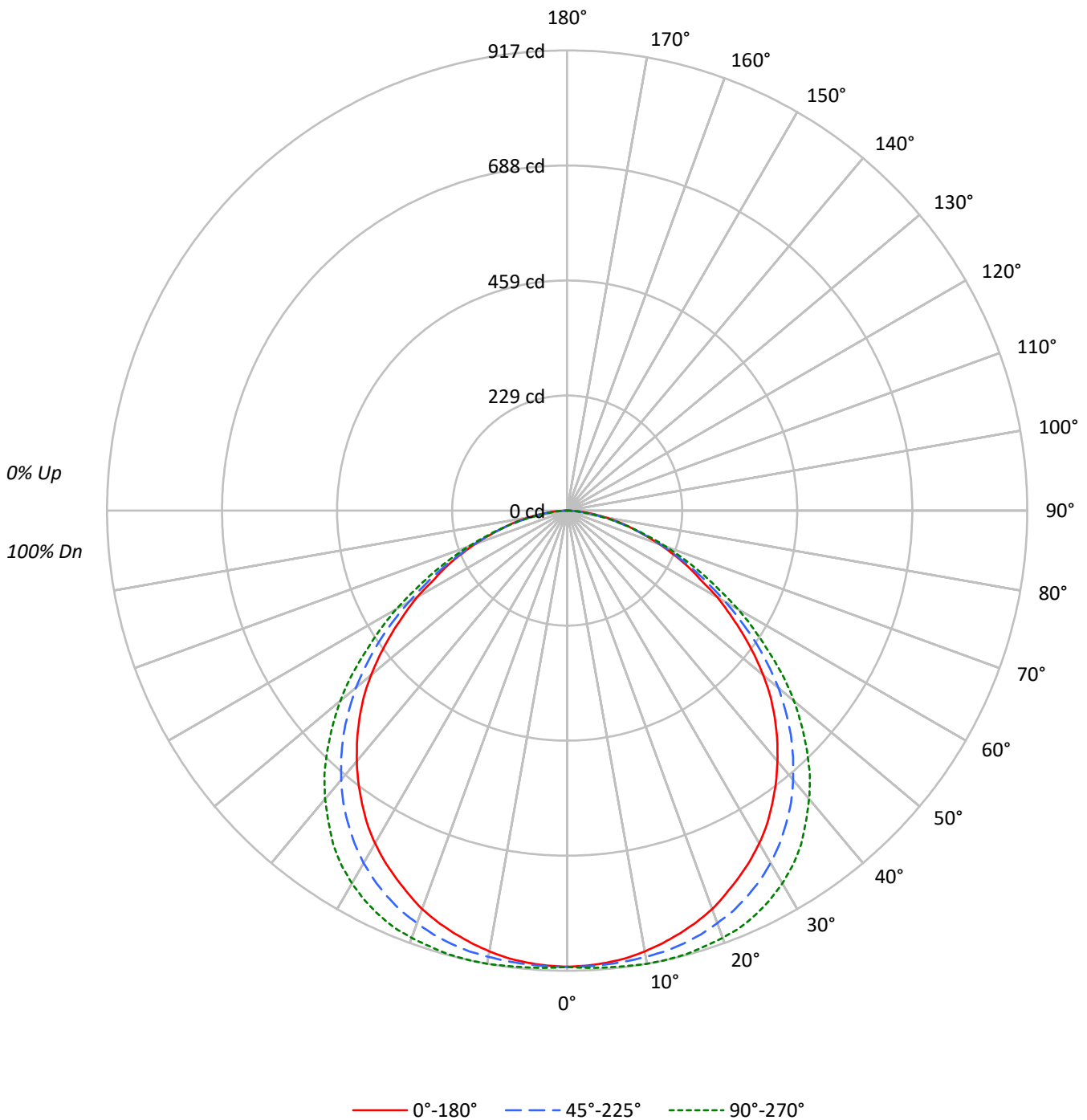
Input Watts (W): 31.992  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2446	2446	2446
5°	2443	2451	2468
10°	2437	2467	2505
15°	2428	2489	2550
20°	2421	2505	2594
25°	2399	2519	2639
30°	2380	2520	2665
35°	2342	2501	2669
40°	2291	2461	2636
45°	2227	2399	2571
50°	2138	2300	2470
55°	2001	2154	2300
60°	1860	1961	2119
65°	1705	1764	1883
70°	1543	1568	1641
75°	1360	1327	1376
80°	1182	1085	1037
85°	960	719	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	3.4
10°-20°	252.4	9.9
20°-30°	391.1	15.4
30°-40°	475.9	18.7
40°-50°	484.7	19.0
50°-60°	408.8	16.1
60°-70°	276.5	10.9
70°-80°	138.2	5.4
80°-90°	30.7	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°	730.1	28.7
0°-40°	1206.0	47.4
0°-60°	2099.5	82.5
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	904	906	908	912	914	86
15°	872	878	894	909	915	246
25°	808	820	848	876	889	372
35°	713	728	761	797	813	446
45°	585	596	630	663	676	451
55°	426	433	459	481	490	382
65°	268	263	277	290	296	264
75°	131	126	128	129	132	140
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	907.5	907.5	909.1	910.6	912.2
5°	904.4	906.0	907.5	912.2	913.8
7.5°	899.7	901.3	906.0	912.2	915.3
10°	892.0	895.1	902.9	912.2	916.9
12.5°	882.6	887.3	899.7	910.6	916.9
15°	871.7	877.9	893.5	909.1	915.3
17.5°	859.3	867.1	885.7	902.9	910.6
20°	845.3	854.6	874.8	896.6	906.0
22.5°	826.6	839.0	863.9	888.8	899.7
25°	807.9	820.4	848.4	876.4	888.8
27.5°	787.7	801.7	831.3	862.4	874.8
30°	765.9	778.3	811.0	843.7	857.7
32.5°	741.0	753.4	787.7	821.9	837.5
35°	712.9	728.5	761.2	797.0	812.6
37.5°	683.4	697.4	733.2	767.4	781.4
40°	652.2	666.2	700.5	736.3	750.3
42.5°	619.5	633.6	666.2	700.5	716.1
45°	585.3	596.2	630.4	663.1	675.6
47.5°	549.5	557.3	590.0	621.1	633.6
50°	510.6	518.4	549.5	577.5	590.0
52.5°	468.6	474.8	504.4	529.3	543.3
55°	426.5	432.7	459.2	481.0	490.3
57.5°	384.5	387.6	411.0	432.7	442.1
60°	345.6	345.6	364.3	381.4	393.8
62.5°	300.4	305.1	319.1	336.2	340.9
65°	267.7	263.1	277.1	289.5	295.8
67.5°	230.4	227.3	236.6	247.5	250.6
70°	196.1	191.5	199.3	205.5	208.6
72.5°	160.3	158.8	161.9	166.6	168.1
75°	130.8	126.1	127.6	129.2	132.3
77.5°	104.3	96.5	98.1	96.5	98.1
80°	76.3	70.0	70.0	68.5	66.9
82.5°	51.4	48.3	45.1	42.0	40.5
85°	31.1	26.5	23.3	20.2	20.2
87.5°	12.5	9.3	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)