

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: P296690

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296690  
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-LD5-35-RDP-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2725.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

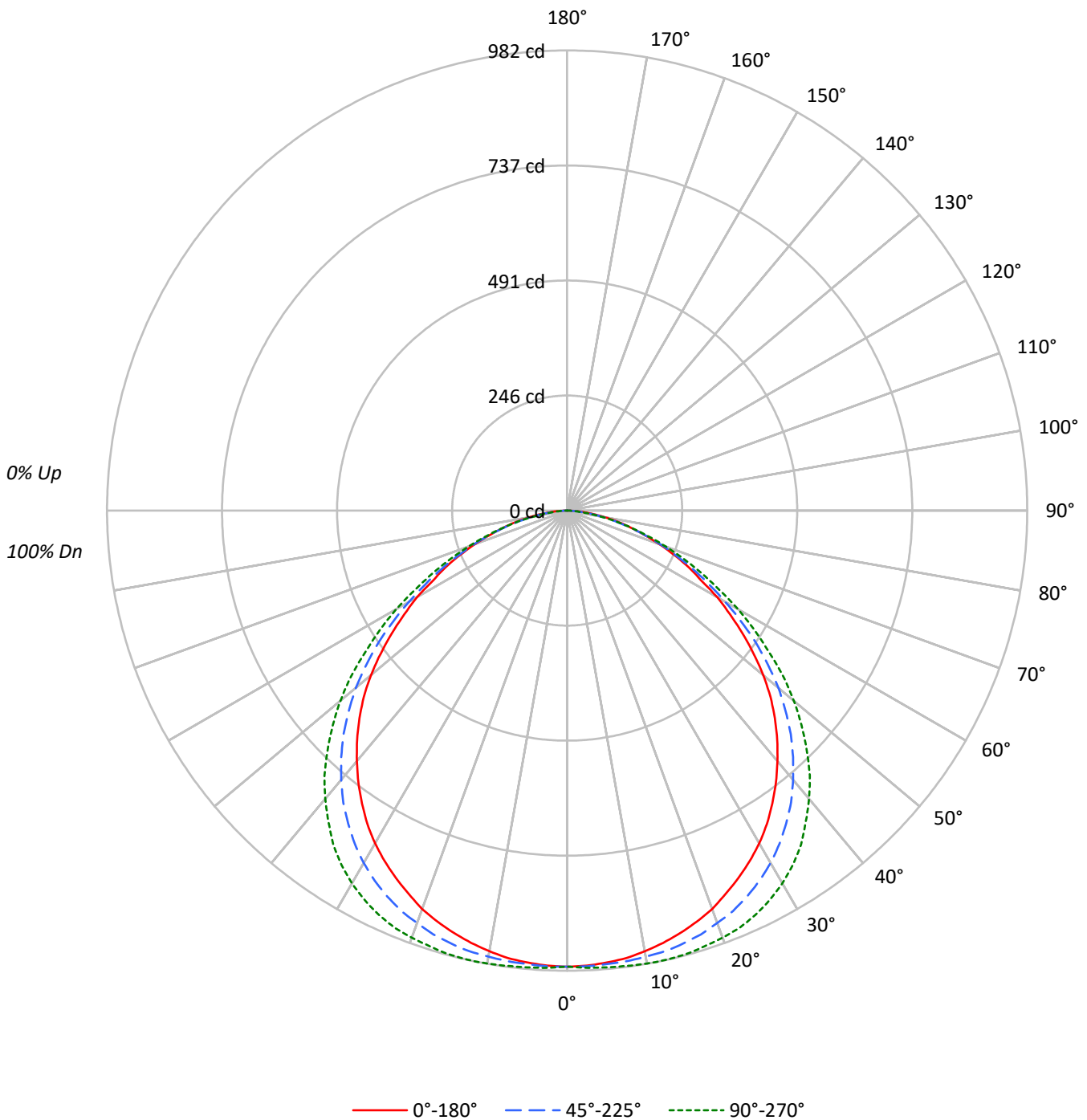
Input Watts (W): 29.202  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2619	2619	2619
5°	2616	2625	2643
10°	2610	2641	2682
15°	2600	2665	2730
20°	2592	2682	2778
25°	2568	2697	2826
30°	2548	2698	2854
35°	2508	2677	2858
40°	2453	2635	2822
45°	2385	2569	2753
50°	2289	2463	2645
55°	2143	2307	2463
60°	1991	2099	2270
65°	1826	1889	2017
70°	1652	1678	1757
75°	1456	1421	1473
80°	1266	1162	1111
85°	1028	772	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	3.4
10°-20°	270.3	9.9
20°-30°	418.7	15.4
30°-40°	509.6	18.7
40°-50°	519.0	19.0
50°-60°	437.7	16.1
60°-70°	296.1	10.9
70°-80°	147.9	5.4
80°-90°	32.9	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°	781.7	28.7
0°-40°	1291.3	47.4
0°-60°	2248.0	82.5
0°-90°	2725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	968	970	972	977	978	92
15°	933	940	957	973	980	263
25°	865	878	908	938	952	399
35°	763	780	815	853	870	477
45°	627	638	675	710	723	483
55°	457	463	492	515	525	409
65°	287	282	297	310	317	283
75°	140	135	137	138	142	150
85°	33	28	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°	973.4	973.4	973.4	973.4	973.4
2.5°	971.7	971.7	973.4	975.0	976.7
5°	968.4	970.0	971.7	976.7	978.4
7.5°	963.4	965.0	970.0	976.7	980.0
10°	955.0	958.4	966.7	976.7	981.7
12.5°	945.0	950.0	963.4	975.0	981.7
15°	933.4	940.0	956.7	973.4	980.0
17.5°	920.0	928.4	948.4	966.7	975.0
20°	905.0	915.0	936.7	960.0	970.0
22.5°	885.0	898.4	925.0	951.7	963.4
25°	865.0	878.4	908.4	938.4	951.7
27.5°	843.4	858.4	890.0	923.4	936.7
30°	820.0	833.4	868.4	903.4	918.4
32.5°	793.4	806.7	843.4	880.0	896.7
35°	763.4	780.0	815.0	853.4	870.0
37.5°	731.7	746.7	785.0	821.7	836.7
40°	698.4	713.4	750.0	788.4	803.4
42.5°	663.4	678.4	713.4	750.0	766.7
45°	626.7	638.4	675.0	710.0	723.4
47.5°	588.4	596.7	631.7	665.0	678.4
50°	546.7	555.0	588.4	618.4	631.7
52.5°	501.7	508.4	540.0	566.7	581.7
55°	456.7	463.4	491.7	515.0	525.0
57.5°	411.7	415.0	440.0	463.4	473.4
60°	370.0	370.0	390.0	408.4	421.7
62.5°	321.7	326.7	341.7	360.0	365.0
65°	286.7	281.7	296.7	310.0	316.7
67.5°	246.7	243.3	253.3	265.0	268.3
70°	210.0	205.0	213.3	220.0	223.3
72.5°	171.7	170.0	173.3	178.3	180.0
75°	140.0	135.0	136.7	138.3	141.7
77.5°	111.7	103.3	105.0	103.3	105.0
80°	81.7	75.0	75.0	73.3	71.7
82.5°	55.0	51.7	48.3	45.0	43.3
85°	33.3	28.3	25.0	21.7	21.7
87.5°	13.3	10.0	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)