

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: P296643

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296643  
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-L93050-W2A1-U-4500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2681.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

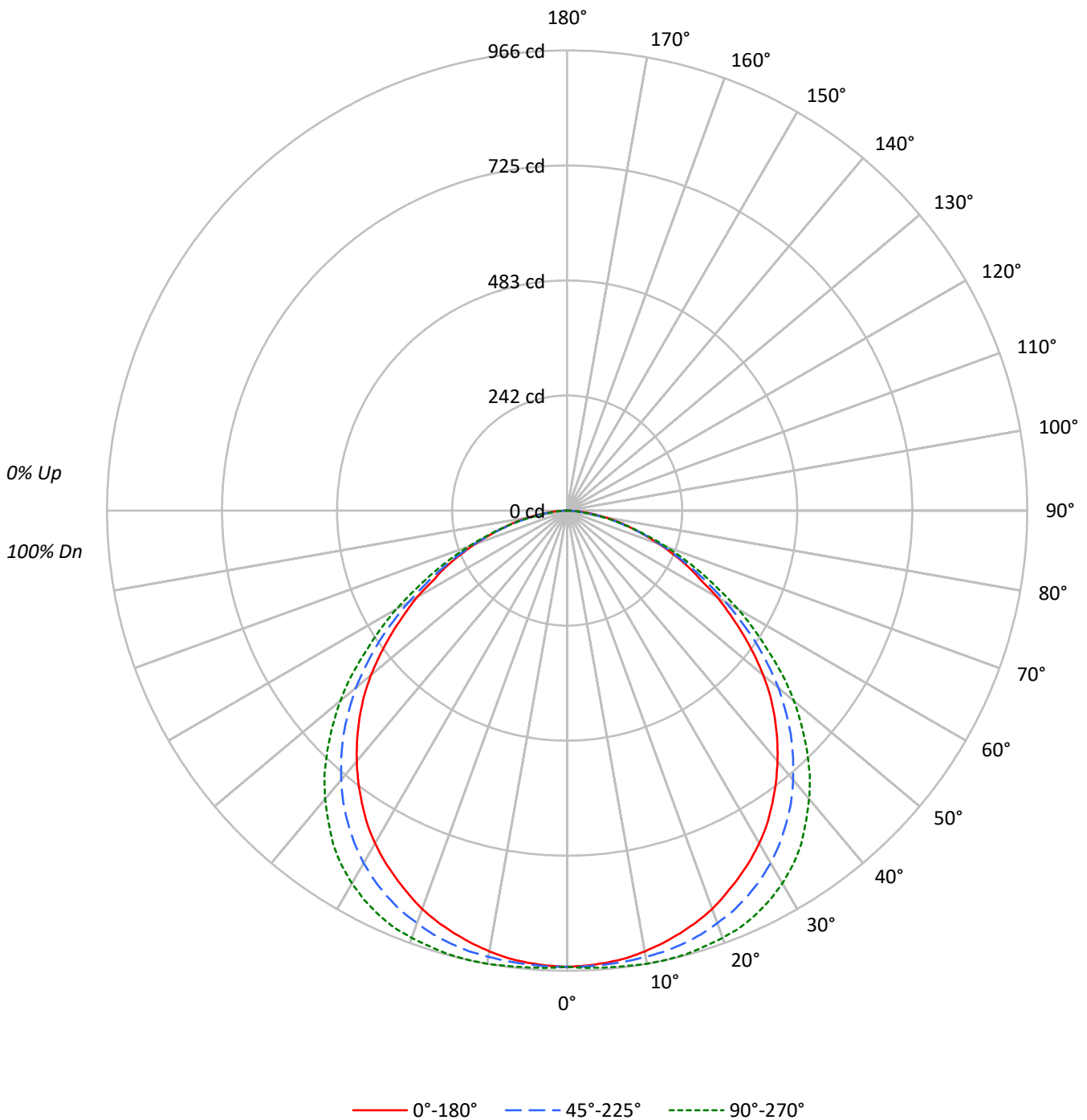
Input Watts (W): 29.109  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2577	2577	2577
5°	2573	2582	2600
10°	2567	2599	2639
15°	2558	2622	2686
20°	2550	2639	2733
25°	2527	2654	2780
30°	2507	2655	2807
35°	2467	2634	2812
40°	2414	2592	2777
45°	2347	2527	2708
50°	2252	2424	2602
55°	2108	2270	2423
60°	1959	2065	2233
65°	1796	1859	1984
70°	1626	1651	1729
75°	1432	1398	1449
80°	1246	1144	1093
85°	1013	760	658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	3.4
10°-20°	265.9	9.9
20°-30°	412.0	15.4
30°-40°	501.4	18.7
40°-50°	510.7	19.0
50°-60°	430.6	16.1
60°-70°	291.3	10.9
70°-80°	145.6	5.4
80°-90°	32.4	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°	769.1	28.7
0°-40°	1270.5	47.4
0°-60°	2211.7	82.5
0°-90°	2681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	953	954	956	961	963	91
15°	918	925	941	958	964	259
25°	851	864	894	923	936	392
35°	751	767	802	840	856	469
45°	617	628	664	699	712	475
55°	449	456	484	507	516	402
65°	282	277	292	305	312	279
75°	138	133	134	136	139	148
85°	33	28	25	21	21	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	957.7	957.7	957.7	957.7	957.7
2.5°	956.0	956.0	957.7	959.3	960.9
5°	952.7	954.4	956.0	960.9	962.6
7.5°	947.8	949.5	954.4	960.9	964.2
10°	939.6	942.9	951.1	960.9	965.9
12.5°	929.8	934.7	947.8	959.3	965.9
15°	918.3	924.9	941.3	957.7	964.2
17.5°	905.2	913.4	933.1	951.1	959.3
20°	890.4	900.3	921.6	944.5	954.4
22.5°	870.8	883.9	910.1	936.3	947.8
25°	851.1	864.2	893.7	923.2	936.3
27.5°	829.8	844.5	875.7	908.5	921.6
30°	806.8	819.9	854.4	888.8	903.5
32.5°	780.6	793.7	829.8	865.8	882.2
35°	751.0	767.4	801.9	839.6	856.0
37.5°	719.9	734.6	772.4	808.4	823.2
40°	687.1	701.8	737.9	775.6	790.4
42.5°	652.7	667.4	701.8	737.9	754.3
45°	616.6	628.1	664.1	698.6	711.7
47.5°	578.9	587.1	621.5	654.3	667.4
50°	537.9	546.1	578.9	608.4	621.5
52.5°	493.6	500.1	531.3	557.5	572.3
55°	449.3	455.9	483.8	506.7	516.5
57.5°	405.0	408.3	432.9	455.9	465.7
60°	364.0	364.0	383.7	401.8	414.9
62.5°	316.5	321.4	336.2	354.2	359.1
65°	282.1	277.1	291.9	305.0	311.6
67.5°	242.7	239.4	249.3	260.7	264.0
70°	206.6	201.7	209.9	216.5	219.7
72.5°	168.9	167.3	170.5	175.5	177.1
75°	137.7	132.8	134.5	136.1	139.4
77.5°	109.9	101.7	103.3	101.7	103.3
80°	80.4	73.8	73.8	72.2	70.5
82.5°	54.1	50.8	47.6	44.3	42.6
85°	32.8	27.9	24.6	21.3	21.3
87.5°	13.1	9.8	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)