

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: P296665

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296665  
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-LD5-25-RDP-UNV-L92765-W2A1-U-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1629.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

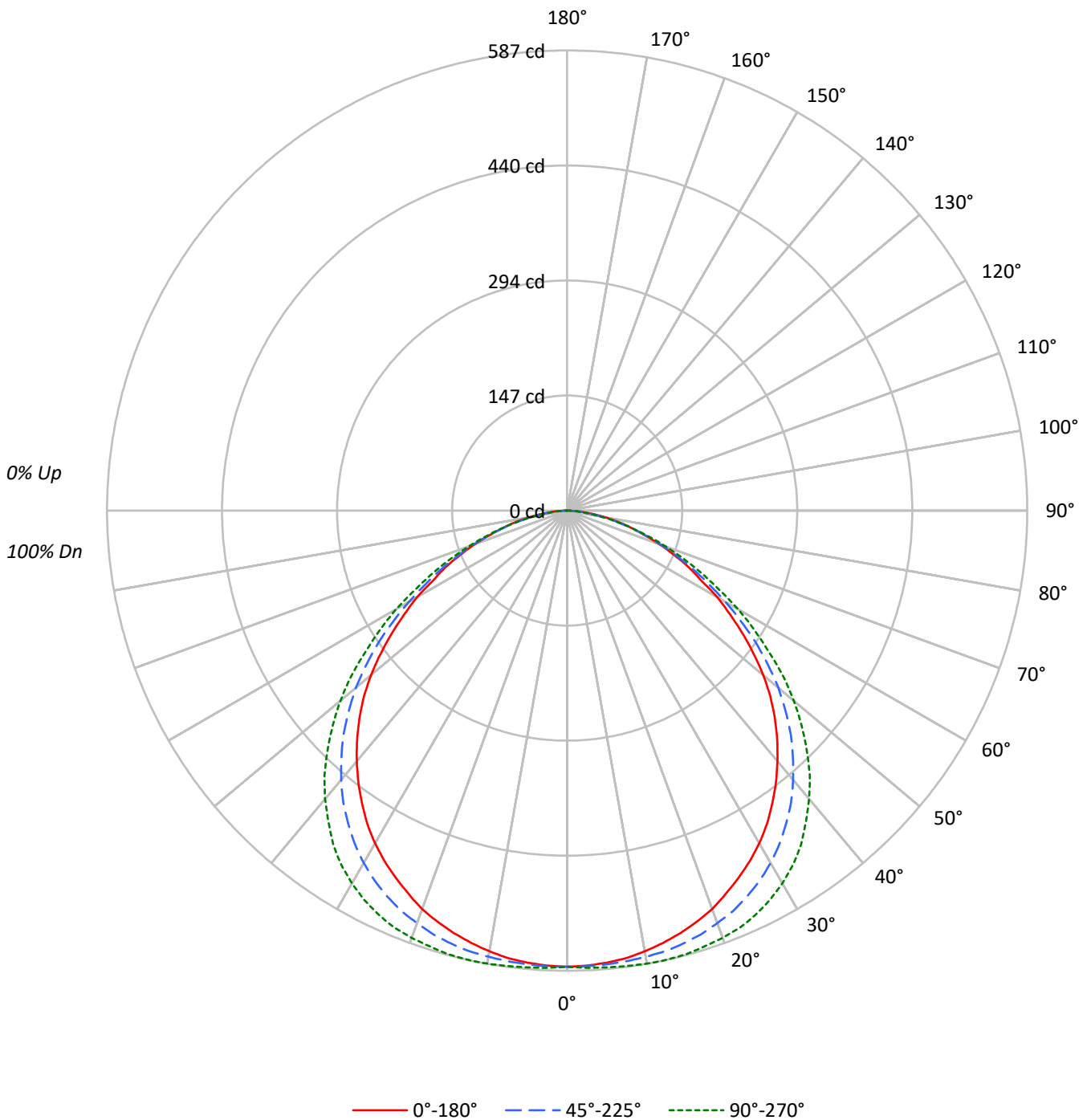
Input Watts (W): 18.693  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1564	1569	1580
10°	1560	1579	1604
15°	1555	1593	1632
20°	1549	1604	1661
25°	1535	1612	1689
30°	1523	1613	1706
35°	1499	1600	1709
40°	1467	1575	1687
45°	1426	1536	1646
50°	1368	1472	1581
55°	1281	1379	1473
60°	1190	1255	1357
65°	1091	1130	1205
70°	987	1003	1050
75°	870	849	881
80°	756	694	663
85°	614	460	401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	3.4
10°-20°	161.6	9.9
20°-30°	250.3	15.4
30°-40°	304.6	18.7
40°-50°	310.3	19.0
50°-60°	261.7	16.1
60°-70°	177.0	10.9
70°-80°	88.4	5.4
80°-90°	19.7	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°	467.3	28.7
0°-40°	771.9	47.4
0°-60°	1343.9	82.5
0°-90°	1629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	579	580	581	584	585	55
15°	558	562	572	582	586	158
25°	517	525	543	561	569	238
35°	456	466	487	510	520	285
45°	375	382	404	424	432	289
55°	273	277	294	308	314	244
65°	171	168	177	185	189	169
75°	84	81	82	83	85	90
85°	20	17	15	13	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	581.9	581.9	581.9	581.9	581.9
2.5°	580.9	580.9	581.9	582.9	583.9
5°	578.9	579.9	580.9	583.9	584.9
7.5°	575.9	576.9	579.9	583.9	585.9
10°	570.9	572.9	577.9	583.9	586.9
12.5°	564.9	567.9	575.9	582.9	586.9
15°	558.0	562.0	571.9	581.9	585.9
17.5°	550.0	555.0	566.9	577.9	582.9
20°	541.0	547.0	560.0	573.9	579.9
22.5°	529.1	537.0	553.0	568.9	575.9
25°	517.1	525.1	543.0	561.0	568.9
27.5°	504.2	513.1	532.1	552.0	560.0
30°	490.2	498.2	519.1	540.0	549.0
32.5°	474.3	482.2	504.2	526.1	536.1
35°	456.3	466.3	487.2	510.1	520.1
37.5°	437.4	446.4	469.3	491.2	500.2
40°	417.5	426.4	448.4	471.3	480.3
42.5°	396.6	405.5	426.4	448.4	458.3
45°	374.6	381.6	403.5	424.5	432.4
47.5°	351.7	356.7	377.6	397.6	405.5
50°	326.8	331.8	351.7	369.7	377.6
52.5°	299.9	303.9	322.8	338.8	347.7
55°	273.0	277.0	293.9	307.9	313.9
57.5°	246.1	248.1	263.0	277.0	283.0
60°	221.2	221.2	233.2	244.1	252.1
62.5°	192.3	195.3	204.3	215.2	218.2
65°	171.4	168.4	177.4	185.3	189.3
67.5°	147.5	145.5	151.4	158.4	160.4
70°	125.5	122.6	127.5	131.5	133.5
72.5°	102.6	101.6	103.6	106.6	107.6
75°	83.7	80.7	81.7	82.7	84.7
77.5°	66.8	61.8	62.8	61.8	62.8
80°	48.8	44.8	44.8	43.8	42.8
82.5°	32.9	30.9	28.9	26.9	25.9
85°	19.9	16.9	14.9	13.0	13.0
87.5°	8.0	6.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)