

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: P296462

Luminaire Tested: **22RLN-LD5-25-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-25-UNV-L93050-W2A1-U-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1918.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

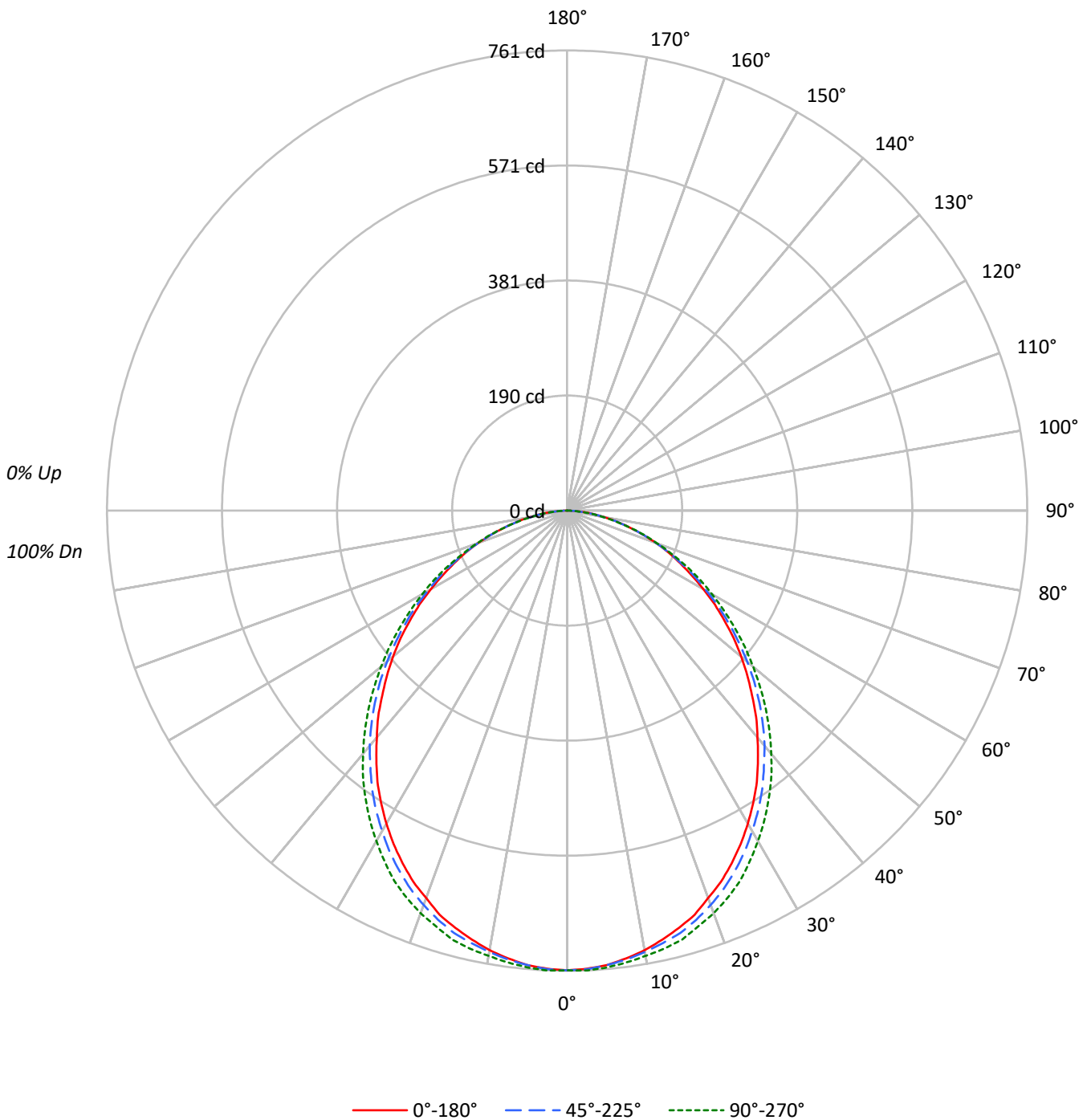
Input Watts (W): 19.344  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2046	2046	2046
5°	2038	2038	2048
10°	2017	2025	2043
15°	1990	2014	2046
20°	1952	1988	2029
25°	1911	1951	2007
30°	1857	1902	1961
35°	1797	1847	1910
40°	1720	1784	1844
45°	1645	1711	1769
50°	1573	1626	1681
55°	1490	1535	1588
60°	1400	1436	1488
65°	1316	1340	1382
70°	1227	1227	1249
75°	1094	1094	1094
80°	964	933	933
85°	769	738	679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	3.7
10°-20°	203.8	10.6
20°-30°	302.8	15.8
30°-40°	351.4	18.3
40°-50°	346.0	18.0
50°-60°	292.8	15.3
60°-70°	208.9	10.9
70°-80°	112.2	5.9
80°-90°	28.3	1.5
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°	578.3	30.2
0°-40°	929.8	48.5
0°-60°	1568.7	81.8
0°-90°	1918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	754	754	754	757	758	71
15°	714	716	723	730	734	201
25°	644	646	657	669	676	296
35°	547	548	562	576	581	341
45°	432	435	450	460	465	334
55°	318	318	327	336	338	284
65°	207	207	210	214	217	205
75°	105	104	105	105	105	113
85°	25	24	24	22	22	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	760.3	760.3	760.3	760.3	760.3
2.5°	758.3	758.3	759.3	760.3	761.2
5°	754.5	754.5	754.5	757.4	758.3
7.5°	746.9	747.8	748.8	751.6	753.6
10°	738.3	739.2	741.1	745.9	747.8
12.5°	726.8	729.7	732.5	739.2	742.1
15°	714.4	716.3	723.0	729.7	734.4
17.5°	701.0	701.9	709.6	719.1	721.0
20°	681.8	684.7	694.3	703.8	708.6
22.5°	664.6	666.5	677.1	689.5	693.3
25°	643.6	645.5	657.0	669.4	676.1
27.5°	621.6	623.5	635.9	649.3	654.1
30°	597.7	599.6	612.0	626.4	631.2
32.5°	572.8	574.7	588.1	600.6	607.2
35°	547.0	548.0	562.3	575.7	581.4
37.5°	518.3	521.2	534.6	548.0	554.7
40°	489.6	492.5	507.8	520.2	525.0
42.5°	462.8	466.7	479.1	490.6	495.4
45°	432.2	435.1	449.5	460.0	464.8
47.5°	404.5	407.4	419.8	430.3	433.2
50°	375.8	377.7	388.3	397.8	401.6
52.5°	347.1	348.1	357.7	367.2	370.1
55°	317.5	318.4	327.1	335.7	338.5
57.5°	289.8	289.8	297.4	304.1	307.0
60°	260.1	260.1	266.8	273.5	276.4
62.5°	232.4	232.4	239.1	243.9	247.7
65°	206.6	206.6	210.4	214.2	217.1
67.5°	181.7	178.8	182.7	187.4	186.5
70°	155.9	153.0	155.9	157.8	158.7
72.5°	130.1	128.1	130.1	131.0	132.9
75°	105.2	104.2	105.2	105.2	105.2
77.5°	84.2	81.3	83.2	82.2	81.3
80°	62.2	61.2	60.2	59.3	60.2
82.5°	43.0	42.1	42.1	40.2	40.2
85°	24.9	23.9	23.9	22.0	22.0
87.5°	9.6	9.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)