

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: P296633

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296633  
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-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: 1867.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

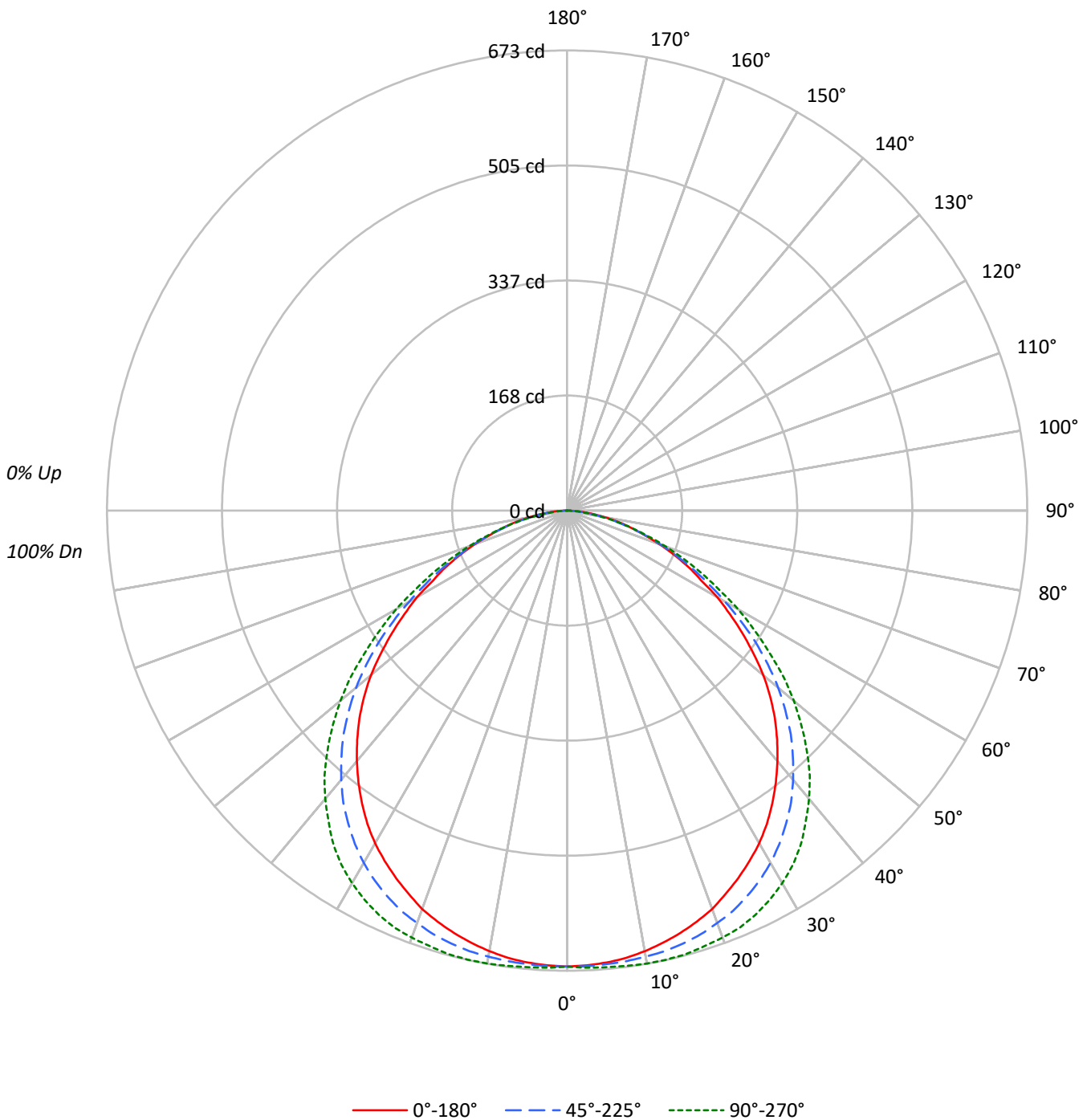
Input Watts (W): 19.716  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1795	1795	1795
5°	1792	1798	1811
10°	1788	1810	1838
15°	1782	1826	1871
20°	1776	1838	1903
25°	1760	1848	1936
30°	1746	1849	1955
35°	1718	1834	1958
40°	1681	1805	1933
45°	1634	1760	1886
50°	1568	1688	1812
55°	1468	1581	1688
60°	1364	1438	1555
65°	1251	1294	1382
70°	1132	1150	1204
75°	997	973	1010
80°	868	797	761
85°	704	528	457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	3.4
10°-20°	185.2	9.9
20°-30°	286.9	15.4
30°-40°	349.2	18.7
40°-50°	355.6	19.0
50°-60°	299.9	16.1
60°-70°	202.9	10.9
70°-80°	101.4	5.4
80°-90°	22.5	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°	535.6	28.7
0°-40°	884.7	47.4
0°-60°	1540.2	82.5
0°-90°	1867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	664	665	666	669	670	63
15°	640	644	656	667	672	181
25°	593	602	622	643	652	273
35°	523	534	558	585	596	327
45°	429	437	462	486	496	331
55°	313	318	337	353	360	280
65°	196	193	203	212	217	194
75°	96	92	94	95	97	103
85°	23	19	17	15	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.9	666.9	666.9	666.9	666.9
2.5°	665.8	665.8	666.9	668.0	669.2
5°	663.5	664.6	665.8	669.2	670.3
7.5°	660.0	661.2	664.6	669.2	671.5
10°	654.3	656.6	662.3	669.2	672.6
12.5°	647.5	650.9	660.0	668.0	672.6
15°	639.5	644.1	655.5	666.9	671.5
17.5°	630.4	636.1	649.8	662.3	668.0
20°	620.1	626.9	641.8	657.8	664.6
22.5°	606.4	615.5	633.8	652.1	660.0
25°	592.7	601.8	622.4	642.9	652.1
27.5°	577.8	588.1	609.8	632.6	641.8
30°	561.8	571.0	595.0	618.9	629.2
32.5°	543.6	552.7	577.8	602.9	614.4
35°	523.0	534.4	558.4	584.7	596.1
37.5°	501.3	511.6	537.9	563.0	573.3
40°	478.5	488.8	513.9	540.1	550.4
42.5°	454.5	464.8	488.8	513.9	525.3
45°	429.4	437.4	462.5	486.5	495.6
47.5°	403.1	408.8	432.8	455.6	464.8
50°	374.6	380.3	403.1	423.7	432.8
52.5°	343.7	348.3	370.0	388.3	398.5
55°	312.9	317.5	336.9	352.9	359.7
57.5°	282.1	284.3	301.5	317.5	324.3
60°	253.5	253.5	267.2	279.8	288.9
62.5°	220.4	223.8	234.1	246.7	250.1
65°	196.4	193.0	203.3	212.4	217.0
67.5°	169.0	166.7	173.6	181.6	183.9
70°	143.9	140.5	146.2	150.7	153.0
72.5°	117.6	116.5	118.8	122.2	123.3
75°	95.9	92.5	93.6	94.8	97.1
77.5°	76.5	70.8	71.9	70.8	71.9
80°	56.0	51.4	51.4	50.2	49.1
82.5°	37.7	35.4	33.1	30.8	29.7
85°	22.8	19.4	17.1	14.8	14.8
87.5°	9.1	6.9	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)