

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: P296673

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296673  
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-LD5-31-RDP-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1999.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

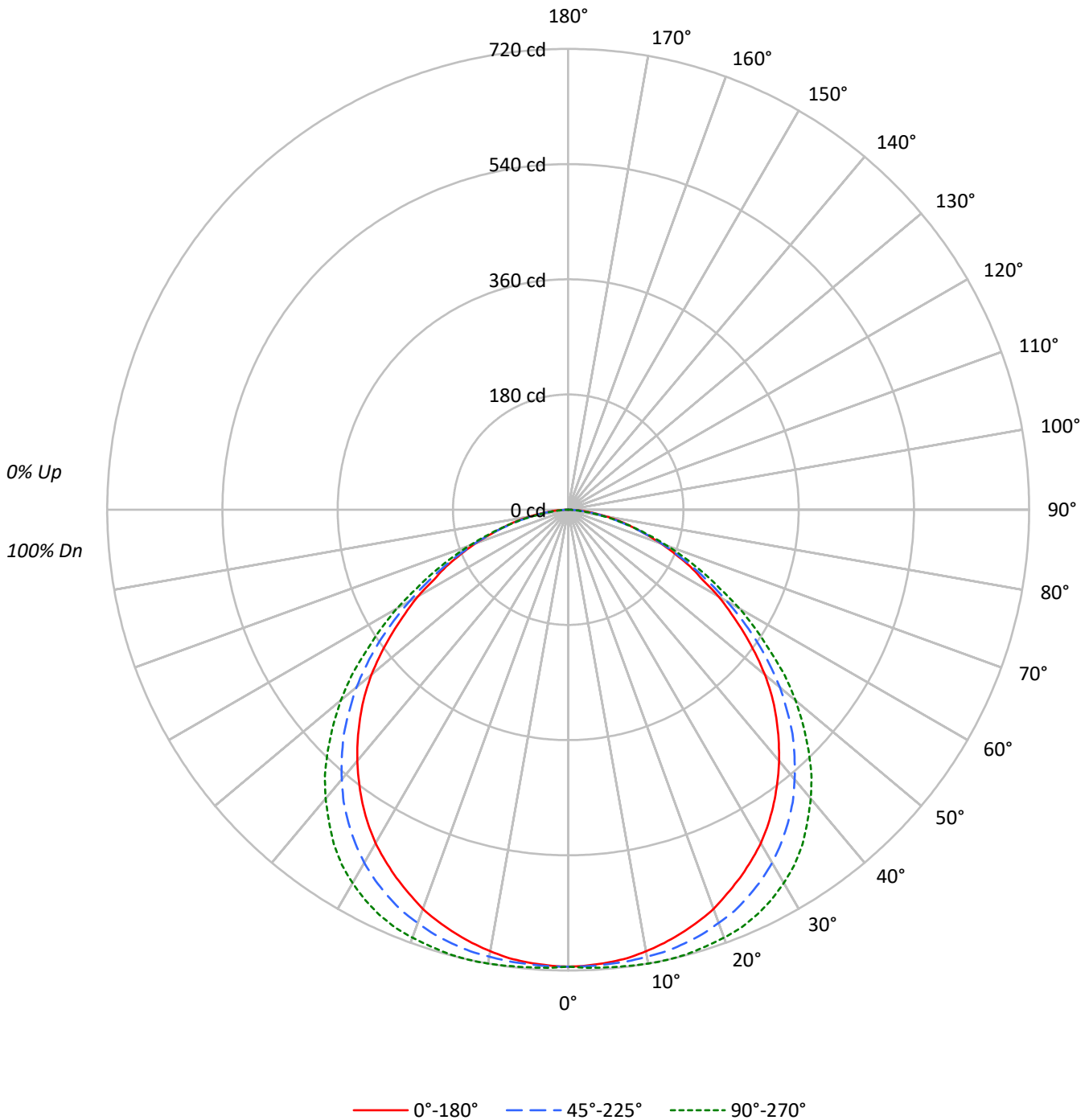
Input Watts (W): 24.366  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1921	1921	1921
5°	1919	1925	1939
10°	1914	1938	1968
15°	1908	1955	2003
20°	1901	1968	2038
25°	1884	1979	2073
30°	1869	1979	2093
35°	1840	1964	2097
40°	1800	1933	2070
45°	1749	1885	2019
50°	1679	1807	1940
55°	1572	1692	1807
60°	1461	1540	1665
65°	1339	1386	1479
70°	1212	1231	1289
75°	1068	1043	1080
80°	928	852	815
85°	756	565	491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	3.4
10°-20°	198.3	9.9
20°-30°	307.2	15.4
30°-40°	373.8	18.7
40°-50°	380.7	19.0
50°-60°	321.1	16.1
60°-70°	217.2	10.9
70°-80°	108.5	5.4
80°-90°	24.1	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°	573.4	28.7
0°-40°	947.3	47.4
0°-60°	1649.1	82.5
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	710	712	713	716	718	68
15°	685	690	702	714	719	193
25°	635	644	666	688	698	293
35°	560	572	598	626	638	350
45°	460	468	495	521	531	354
55°	335	340	361	378	385	300
65°	210	207	218	227	232	208
75°	103	99	100	102	104	110
85°	24	21	18	16	16	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	714.0	714.0	714.0	714.0	714.0
2.5°	712.8	712.8	714.0	715.3	716.5
5°	710.4	711.6	712.8	716.5	717.7
7.5°	706.7	707.9	711.6	716.5	718.9
10°	700.6	703.0	709.2	716.5	720.2
12.5°	693.3	696.9	706.7	715.3	720.2
15°	684.7	689.6	701.8	714.0	718.9
17.5°	674.9	681.0	695.7	709.2	715.3
20°	663.9	671.3	687.2	704.3	711.6
22.5°	649.2	659.0	678.6	698.2	706.7
25°	634.6	644.4	666.4	688.4	698.2
27.5°	618.7	629.7	652.9	677.4	687.2
30°	601.6	611.3	637.0	662.7	673.7
32.5°	582.0	591.8	618.7	645.6	657.8
35°	560.0	572.2	597.9	626.0	638.2
37.5°	536.8	547.8	575.9	602.8	613.8
40°	512.3	523.3	550.2	578.3	589.3
42.5°	486.6	497.6	523.3	550.2	562.4
45°	459.7	468.3	495.2	520.9	530.6
47.5°	431.6	437.7	463.4	487.9	497.6
50°	401.0	407.2	431.6	453.6	463.4
52.5°	368.0	372.9	396.2	415.7	426.7
55°	335.0	339.9	360.7	377.8	385.1
57.5°	302.0	304.4	322.8	339.9	347.2
60°	271.4	271.4	286.1	299.6	309.3
62.5°	236.0	239.6	250.7	264.1	267.8
65°	210.3	206.6	217.6	227.4	232.3
67.5°	181.0	178.5	185.8	194.4	196.9
70°	154.1	150.4	156.5	161.4	163.8
72.5°	125.9	124.7	127.2	130.8	132.1
75°	102.7	99.0	100.3	101.5	103.9
77.5°	81.9	75.8	77.0	75.8	77.0
80°	59.9	55.0	55.0	53.8	52.6
82.5°	40.3	37.9	35.5	33.0	31.8
85°	24.5	20.8	18.3	15.9	15.9
87.5°	9.8	7.3	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)