

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: P296495

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296495  
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-LD5-20-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1904.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

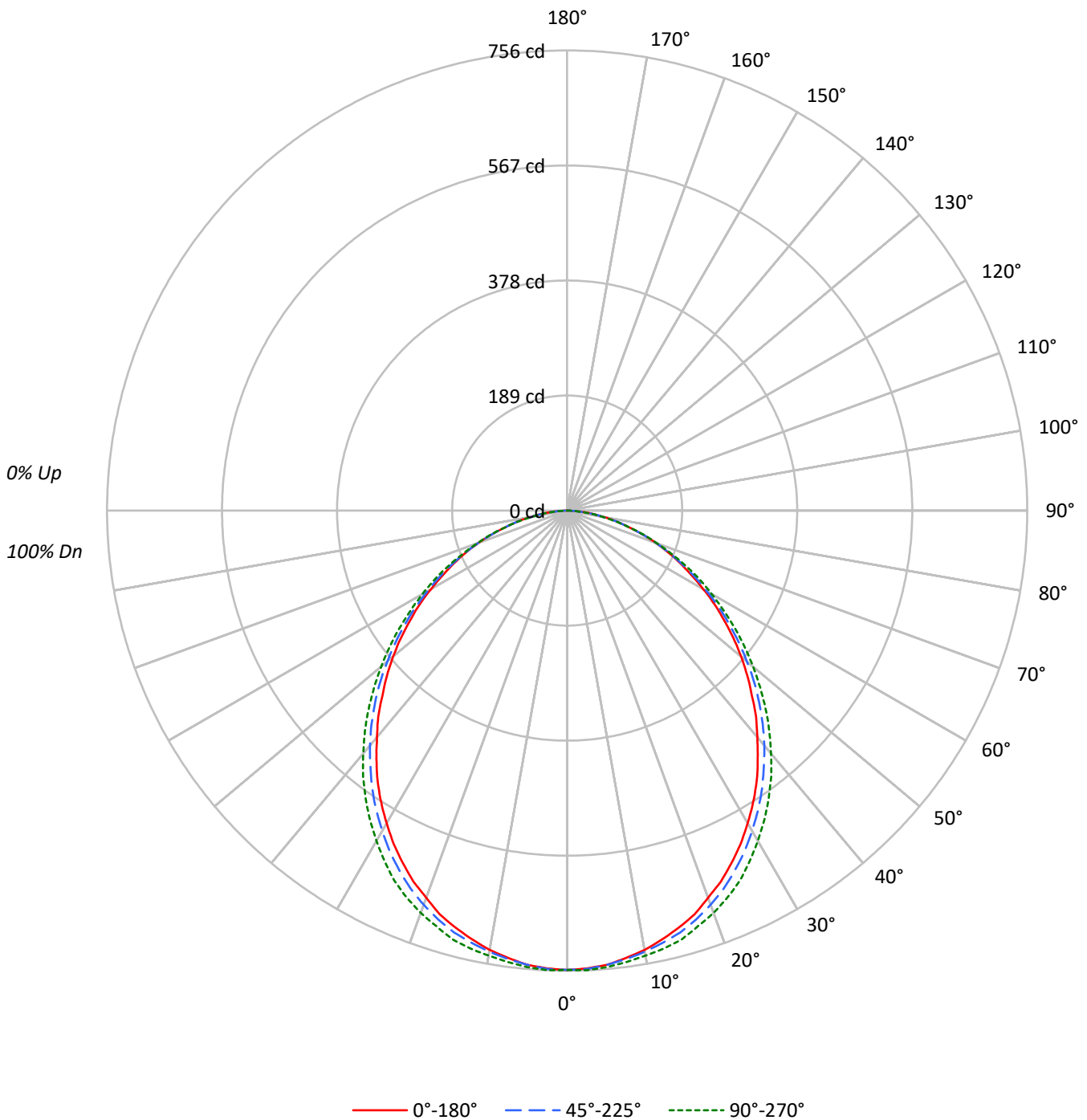
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									100																			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85									85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71									71																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61									61																			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52									52																			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46									46																			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40									40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36									36																			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32									32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29									29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26									26																			

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

	0°	45°	90°
0°	2031	2031	2031
5°	2023	2023	2034
10°	2003	2010	2029
15°	1975	1999	2031
20°	1938	1974	2014
25°	1897	1936	1993
30°	1844	1888	1947
35°	1784	1834	1896
40°	1707	1771	1831
45°	1633	1698	1756
50°	1562	1613	1669
55°	1479	1523	1577
60°	1390	1426	1477
65°	1306	1330	1372
70°	1217	1217	1240
75°	1085	1085	1085
80°	956	927	927
85°	763	732	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	3.7
10°-20°	202.4	10.6
20°-30°	300.6	15.8
30°-40°	348.9	18.3
40°-50°	343.5	18.0
50°-60°	290.7	15.3
60°-70°	207.3	10.9
70°-80°	111.4	5.9
80°-90°	28.1	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°	574.1	30.2
0°-40°	923.0	48.5
0°-60°	1557.2	81.8
0°-90°	1904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	749	749	749	752	753	71
15°	709	711	718	724	729	200
25°	639	641	652	664	671	294
35°	543	544	558	572	577	339
45°	429	432	446	457	461	332
55°	315	316	325	333	336	282
65°	205	205	209	213	216	203
75°	104	104	104	104	104	112
85°	25	24	24	22	22	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	754.7	754.7	754.7	754.7	754.7
2.5°	752.8	752.8	753.8	754.7	755.7
5°	749.0	749.0	749.0	751.9	752.8
7.5°	741.4	742.4	743.3	746.2	748.1
10°	732.9	733.8	735.7	740.5	742.4
12.5°	721.5	724.3	727.2	733.8	736.7
15°	709.1	711.0	717.7	724.3	729.1
17.5°	695.8	696.8	704.4	713.9	715.8
20°	676.9	679.7	689.2	698.7	703.4
22.5°	659.8	661.7	672.1	684.5	688.3
25°	638.9	640.8	652.2	664.5	671.2
27.5°	617.1	619.0	631.3	644.6	649.3
30°	593.3	595.2	607.6	621.8	626.5
32.5°	568.6	570.5	583.8	596.2	602.8
35°	543.0	544.0	558.2	571.5	577.2
37.5°	514.5	517.4	530.7	544.0	550.6
40°	486.0	488.9	504.1	516.4	521.2
42.5°	459.5	463.3	475.6	487.0	491.7
45°	429.1	431.9	446.2	456.6	461.4
47.5°	401.6	404.4	416.7	427.2	430.0
50°	373.1	375.0	385.4	394.9	398.7
52.5°	344.6	345.5	355.0	364.5	367.4
55°	315.2	316.1	324.7	333.2	336.1
57.5°	287.6	287.6	295.2	301.9	304.7
60°	258.2	258.2	264.9	271.5	274.4
62.5°	230.7	230.7	237.3	242.1	245.9
65°	205.1	205.1	208.8	212.6	215.5
67.5°	180.4	177.5	181.3	186.1	185.1
70°	154.7	151.9	154.7	156.6	157.6
72.5°	129.1	127.2	129.1	130.1	132.0
75°	104.4	103.5	104.4	104.4	104.4
77.5°	83.5	80.7	82.6	81.6	80.7
80°	61.7	60.8	59.8	58.9	59.8
82.5°	42.7	41.8	41.8	39.9	39.9
85°	24.7	23.7	23.7	21.8	21.8
87.5°	9.5	9.5	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)