

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: P296377

Luminaire Tested: **22RLN-LD5-20-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296377  
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-L83050-W2A1-U-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2126.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 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

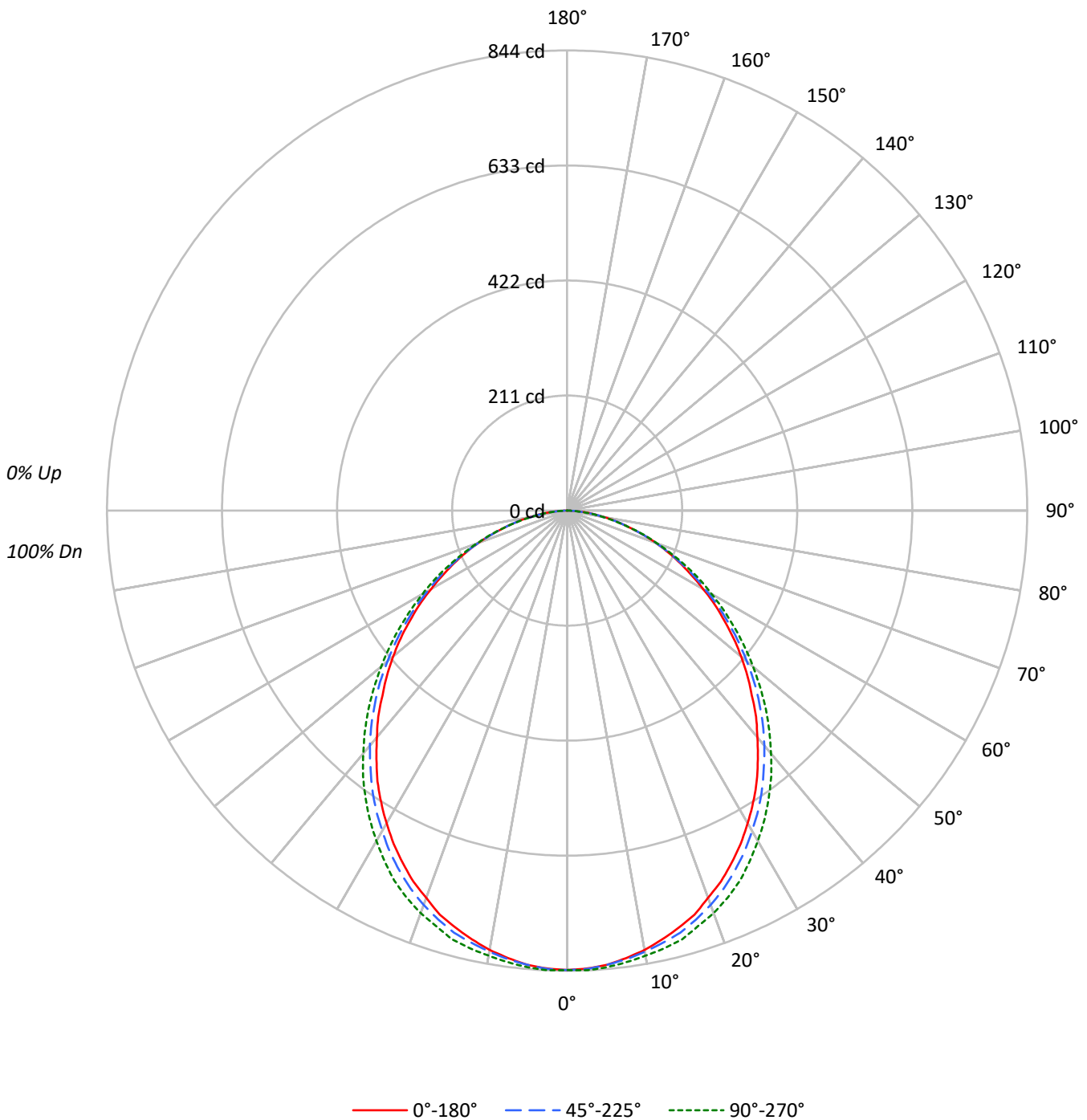
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2268	2268	2268
5°	2259	2259	2271
10°	2236	2245	2265
15°	2206	2233	2268
20°	2164	2204	2249
25°	2118	2162	2225
30°	2059	2108	2174
35°	1992	2048	2117
40°	1906	1977	2044
45°	1823	1896	1961
50°	1744	1802	1864
55°	1651	1701	1760
60°	1552	1591	1648
65°	1458	1485	1532
70°	1360	1360	1385
75°	1212	1212	1212
80°	1068	1035	1035
85°	852	818	753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.7
10°-20°	225.9	10.6
20°-30°	335.6	15.8
30°-40°	389.5	18.3
40°-50°	383.6	18.0
50°-60°	324.6	15.3
60°-70°	231.5	10.9
70°-80°	124.4	5.9
80°-90°	31.3	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°	641.1	30.2
0°-40°	1030.6	48.5
0°-60°	1738.8	81.8
0°-90°	2126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	836	836	836	840	841	79
15°	792	794	801	809	814	223
25°	713	716	728	742	749	328
35°	606	607	623	638	644	378
45°	479	482	498	510	515	370
55°	352	353	362	372	375	315
65°	229	229	233	237	241	227
75°	117	116	117	117	117	125
85°	28	26	26	24	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.7	842.7	842.7	842.7	842.7
2.5°	840.6	840.6	841.6	842.7	843.8
5°	836.3	836.3	836.3	839.5	840.6
7.5°	827.9	828.9	830.0	833.2	835.3
10°	818.3	819.4	821.5	826.8	828.9
12.5°	805.6	808.8	812.0	819.4	822.6
15°	791.8	793.9	801.4	808.8	814.1
17.5°	777.0	778.0	786.5	797.1	799.2
20°	755.8	759.0	769.6	780.2	785.5
22.5°	736.7	738.8	750.5	764.3	768.5
25°	713.4	715.5	728.2	742.0	749.4
27.5°	689.0	691.1	704.9	719.7	725.0
30°	662.5	664.6	678.4	694.3	699.6
32.5°	634.9	637.1	651.9	665.7	673.1
35°	606.3	607.4	623.3	638.1	644.5
37.5°	574.5	577.7	592.5	607.4	614.8
40°	542.7	545.9	562.9	576.6	581.9
42.5°	513.0	517.3	531.1	543.8	549.1
45°	479.1	482.3	498.2	509.9	515.2
47.5°	448.4	451.6	465.3	477.0	480.2
50°	416.6	418.7	430.4	441.0	445.2
52.5°	384.8	385.8	396.4	407.0	410.2
55°	351.9	353.0	362.5	372.1	375.2
57.5°	321.2	321.2	329.7	337.1	340.3
60°	288.3	288.3	295.7	303.2	306.3
62.5°	257.6	257.6	265.0	270.3	274.5
65°	229.0	229.0	233.2	237.4	240.6
67.5°	201.4	198.2	202.5	207.8	206.7
70°	172.8	169.6	172.8	174.9	176.0
72.5°	144.2	142.0	144.2	145.2	147.3
75°	116.6	115.5	116.6	116.6	116.6
77.5°	93.3	90.1	92.2	91.2	90.1
80°	68.9	67.8	66.8	65.7	66.8
82.5°	47.7	46.6	46.6	44.5	44.5
85°	27.6	26.5	26.5	24.4	24.4
87.5°	10.6	10.6	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)