

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: P296374

Luminaire Tested: **22RLN-LD5-20-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296374  
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-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2006.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

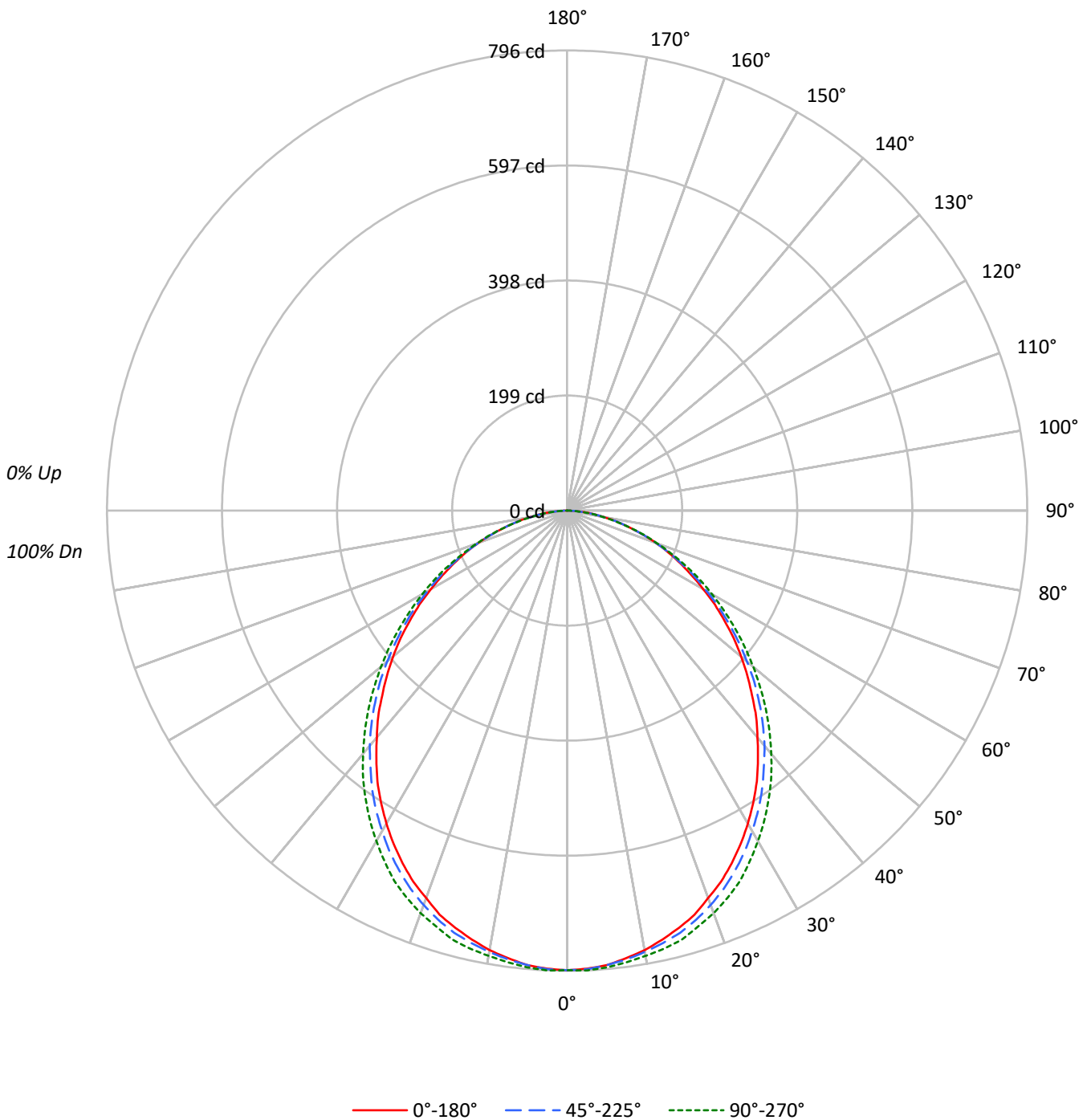
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2140	2140	2140
5°	2132	2132	2142
10°	2110	2118	2137
15°	2081	2106	2140
20°	2042	2079	2122
25°	1999	2040	2099
30°	1942	1989	2051
35°	1879	1932	1998
40°	1799	1866	1929
45°	1721	1789	1850
50°	1646	1700	1759
55°	1558	1605	1661
60°	1464	1502	1555
65°	1375	1401	1445
70°	1282	1282	1306
75°	1144	1144	1144
80°	1007	976	976
85°	803	772	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	3.7
10°-20°	213.2	10.6
20°-30°	316.7	15.8
30°-40°	367.6	18.3
40°-50°	361.9	18.0
50°-60°	306.3	15.3
60°-70°	218.4	10.9
70°-80°	117.4	5.9
80°-90°	29.6	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°	604.9	30.2
0°-40°	972.4	48.5
0°-60°	1640.6	81.8
0°-90°	2006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	789	789	789	792	793	75
15°	747	749	756	763	768	211
25°	673	675	687	700	707	310
35°	572	573	588	602	608	357
45°	452	455	470	481	486	350
55°	332	333	342	351	354	297
65°	216	216	220	224	227	214
75°	110	109	110	110	110	118
85°	26	25	25	23	23	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	793.1	793.1	794.1	795.1	796.1
5°	789.1	789.1	789.1	792.1	793.1
7.5°	781.1	782.1	783.1	786.1	788.1
10°	772.1	773.1	775.1	780.1	782.1
12.5°	760.1	763.1	766.1	773.1	776.1
15°	747.1	749.1	756.1	763.1	768.1
17.5°	733.1	734.1	742.1	752.1	754.1
20°	713.1	716.1	726.1	736.1	741.1
22.5°	695.1	697.1	708.1	721.1	725.1
25°	673.1	675.1	687.1	700.1	707.1
27.5°	650.1	652.1	665.1	679.1	684.1
30°	625.1	627.1	640.1	655.1	660.1
32.5°	599.1	601.1	615.1	628.1	635.1
35°	572.1	573.1	588.1	602.1	608.1
37.5°	542.1	545.1	559.1	573.1	580.1
40°	512.1	515.1	531.1	544.1	549.1
42.5°	484.1	488.1	501.1	513.1	518.1
45°	452.1	455.1	470.1	481.1	486.1
47.5°	423.1	426.1	439.1	450.1	453.1
50°	393.1	395.1	406.1	416.1	420.1
52.5°	363.1	364.1	374.1	384.1	387.1
55°	332.1	333.1	342.1	351.1	354.1
57.5°	303.1	303.1	311.1	318.1	321.1
60°	272.0	272.0	279.0	286.0	289.0
62.5°	243.0	243.0	250.0	255.0	259.0
65°	216.0	216.0	220.0	224.0	227.0
67.5°	190.0	187.0	191.0	196.0	195.0
70°	163.0	160.0	163.0	165.0	166.0
72.5°	136.0	134.0	136.0	137.0	139.0
75°	110.0	109.0	110.0	110.0	110.0
77.5°	88.0	85.0	87.0	86.0	85.0
80°	65.0	64.0	63.0	62.0	63.0
82.5°	45.0	44.0	44.0	42.0	42.0
85°	26.0	25.0	25.0	23.0	23.0
87.5°	10.0	10.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)