

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: P296655

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296655  
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-LD5-20-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: 1275.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

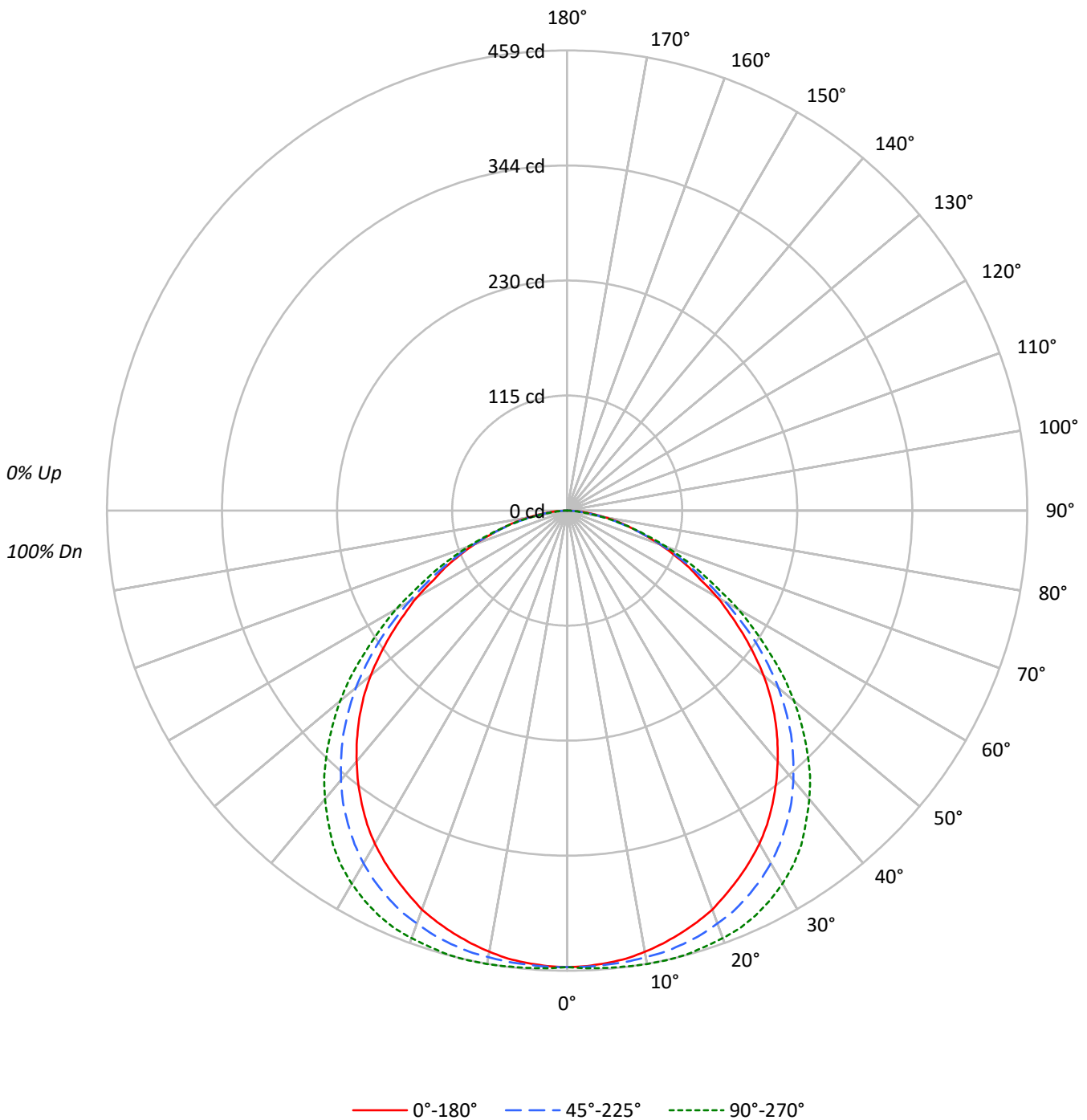
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1225	1225	1225
5°	1224	1228	1237
10°	1221	1236	1255
15°	1217	1247	1278
20°	1213	1255	1300
25°	1202	1262	1322
30°	1192	1262	1335
35°	1173	1253	1337
40°	1148	1233	1320
45°	1116	1202	1288
50°	1071	1153	1238
55°	1003	1080	1153
60°	932	982	1062
65°	854	884	944
70°	773	785	822
75°	681	664	689
80°	592	544	519
85°	482	361	312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	3.4
10°-20°	126.5	9.9
20°-30°	195.9	15.4
30°-40°	238.4	18.7
40°-50°	242.9	19.0
50°-60°	204.8	16.1
60°-70°	138.5	10.9
70°-80°	69.2	5.4
80°-90°	15.4	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°	365.7	28.7
0°-40°	604.2	47.4
0°-60°	1051.9	82.5
0°-90°	1275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	453	454	455	457	458	43
15°	437	440	448	455	459	123
25°	405	411	425	439	445	187
35°	357	365	381	399	407	223
45°	293	299	316	332	338	226
55°	214	217	230	241	246	191
65°	134	132	139	145	148	132
75°	66	63	64	65	66	70
85°	16	13	12	10	10	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	455.4	455.4	455.4	455.4	455.4
2.5°	454.7	454.7	455.4	456.2	457.0
5°	453.1	453.9	454.7	457.0	457.8
7.5°	450.8	451.5	453.9	457.0	458.6
10°	446.9	448.4	452.3	457.0	459.3
12.5°	442.2	444.5	450.8	456.2	459.3
15°	436.7	439.8	447.6	455.4	458.6
17.5°	430.5	434.4	443.7	452.3	456.2
20°	423.5	428.1	438.3	449.2	453.9
22.5°	414.1	420.3	432.8	445.3	450.8
25°	404.7	411.0	425.0	439.1	445.3
27.5°	394.6	401.6	416.4	432.0	438.3
30°	383.7	389.9	406.3	422.7	429.7
32.5°	371.2	377.4	394.6	411.8	419.6
35°	357.2	365.0	381.3	399.3	407.1
37.5°	342.4	349.4	367.3	384.5	391.5
40°	326.8	333.8	350.9	368.9	375.9
42.5°	310.4	317.4	333.8	350.9	358.7
45°	293.2	298.7	315.8	332.2	338.5
47.5°	275.3	279.2	295.6	311.2	317.4
50°	255.8	259.7	275.3	289.3	295.6
52.5°	234.7	237.9	252.7	265.2	272.2
55°	213.7	216.8	230.1	241.0	245.7
57.5°	192.6	194.2	205.9	216.8	221.5
60°	173.1	173.1	182.5	191.1	197.3
62.5°	150.5	152.9	159.9	168.4	170.8
65°	134.1	131.8	138.8	145.1	148.2
67.5°	115.4	113.9	118.5	124.0	125.6
70°	98.3	95.9	99.8	102.9	104.5
72.5°	80.3	79.5	81.1	83.4	84.2
75°	65.5	63.2	63.9	64.7	66.3
77.5°	52.3	48.4	49.1	48.4	49.1
80°	38.2	35.1	35.1	34.3	33.5
82.5°	25.7	24.2	22.6	21.1	20.3
85°	15.6	13.3	11.7	10.1	10.1
87.5°	6.2	4.7	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)