

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: P296629

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296629  
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-L93050-W2A1-U-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1520.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

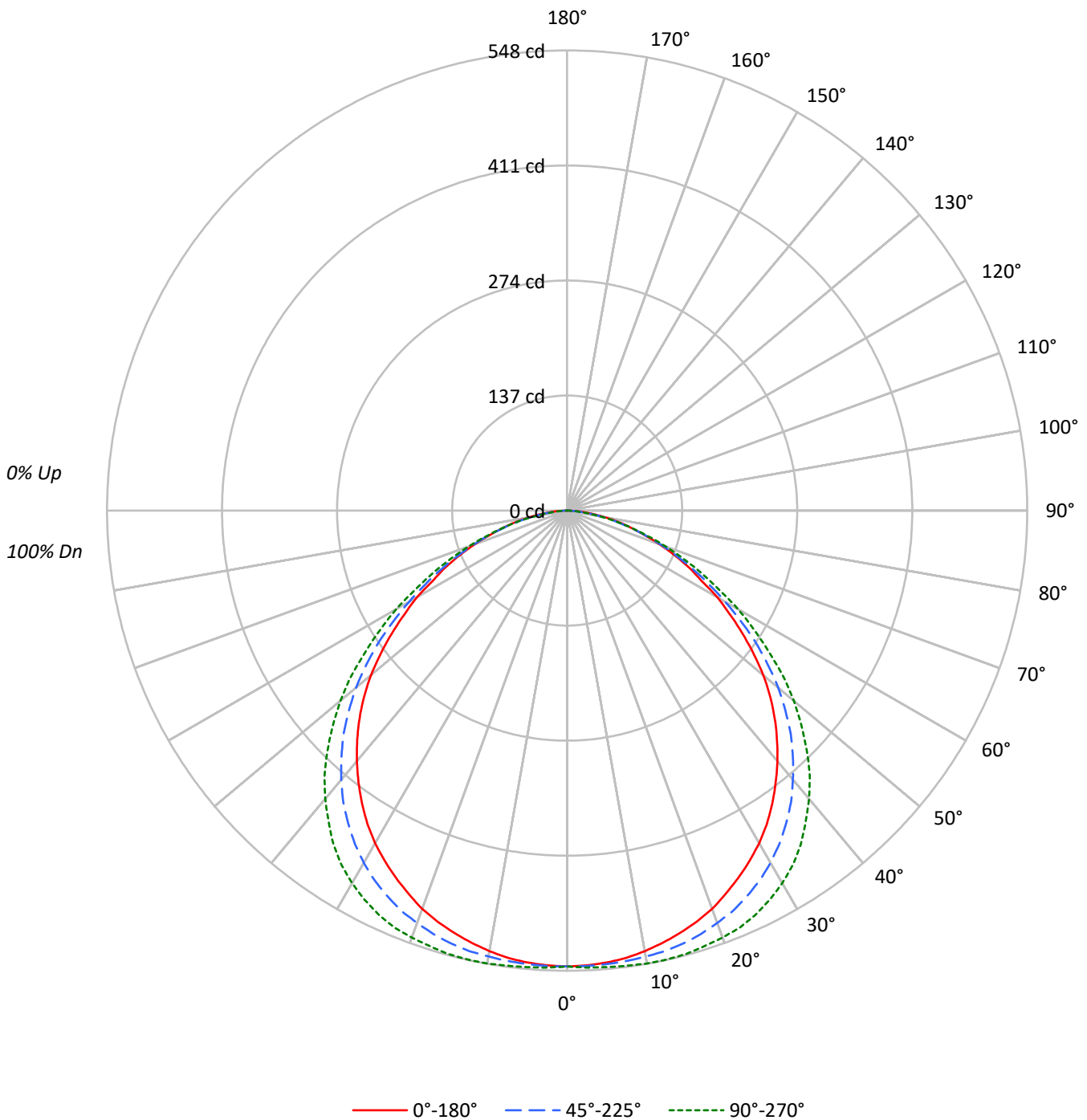
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1461	1461	1461
5°	1459	1464	1474
10°	1456	1473	1496
15°	1450	1487	1523
20°	1446	1496	1550
25°	1433	1504	1576
30°	1421	1505	1592
35°	1399	1493	1594
40°	1368	1470	1574
45°	1330	1433	1536
50°	1276	1374	1475
55°	1195	1287	1374
60°	1111	1171	1266
65°	1018	1054	1124
70°	921	936	980
75°	812	792	821
80°	707	648	620
85°	574	429	374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	3.4
10°-20°	150.8	9.9
20°-30°	233.6	15.4
30°-40°	284.3	18.7
40°-50°	289.5	19.0
50°-60°	244.2	16.1
60°-70°	165.1	10.9
70°-80°	82.5	5.4
80°-90°	18.4	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°	436.0	28.7
0°-40°	720.3	47.4
0°-60°	1254.0	82.5
0°-90°	1520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	540	541	542	545	546	51
15°	521	524	534	543	547	147
25°	482	490	507	523	531	222
35°	426	435	455	476	485	266
45°	350	356	376	396	404	269
55°	255	258	274	287	293	228
65°	160	157	166	173	177	158
75°	78	75	76	77	79	84
85°	19	16	14	12	12	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	542.9	542.9	542.9	542.9	542.9
2.5°	542.0	542.0	542.9	543.9	544.8
5°	540.2	541.1	542.0	544.8	545.7
7.5°	537.4	538.3	541.1	544.8	546.7
10°	532.7	534.6	539.2	544.8	547.6
12.5°	527.1	529.9	537.4	543.9	547.6
15°	520.6	524.4	533.7	542.9	546.7
17.5°	513.2	517.8	529.0	539.2	543.9
20°	504.8	510.4	522.5	535.5	541.1
22.5°	493.7	501.1	516.0	530.9	537.4
25°	482.5	490.0	506.7	523.4	530.9
27.5°	470.4	478.8	496.5	515.1	522.5
30°	457.4	464.9	484.4	503.9	512.3
32.5°	442.5	450.0	470.4	490.9	500.2
35°	425.8	435.1	454.6	476.0	485.3
37.5°	408.1	416.5	437.9	458.3	466.7
40°	389.5	397.9	418.4	439.8	448.1
42.5°	370.0	378.4	397.9	418.4	427.7
45°	349.6	356.1	376.5	396.1	403.5
47.5°	328.2	332.8	352.4	371.0	378.4
50°	304.9	309.6	328.2	344.9	352.4
52.5°	279.8	283.6	301.2	316.1	324.5
55°	254.7	258.5	274.3	287.3	292.9
57.5°	229.6	231.5	245.4	258.5	264.0
60°	206.4	206.4	217.6	227.8	235.2
62.5°	179.4	182.2	190.6	200.8	203.6
65°	159.9	157.1	165.5	172.9	176.6
67.5°	137.6	135.7	141.3	147.8	149.7
70°	117.1	114.4	119.0	122.7	124.6
72.5°	95.8	94.8	96.7	99.5	100.4
75°	78.1	75.3	76.2	77.2	79.0
77.5°	62.3	57.6	58.6	57.6	58.6
80°	45.6	41.8	41.8	40.9	40.0
82.5°	30.7	28.8	27.0	25.1	24.2
85°	18.6	15.8	13.9	12.1	12.1
87.5°	7.4	5.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)