

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: P296631

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296631  
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-LD5-25-RDP-UNV-L93050-W2A1-U-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1699.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

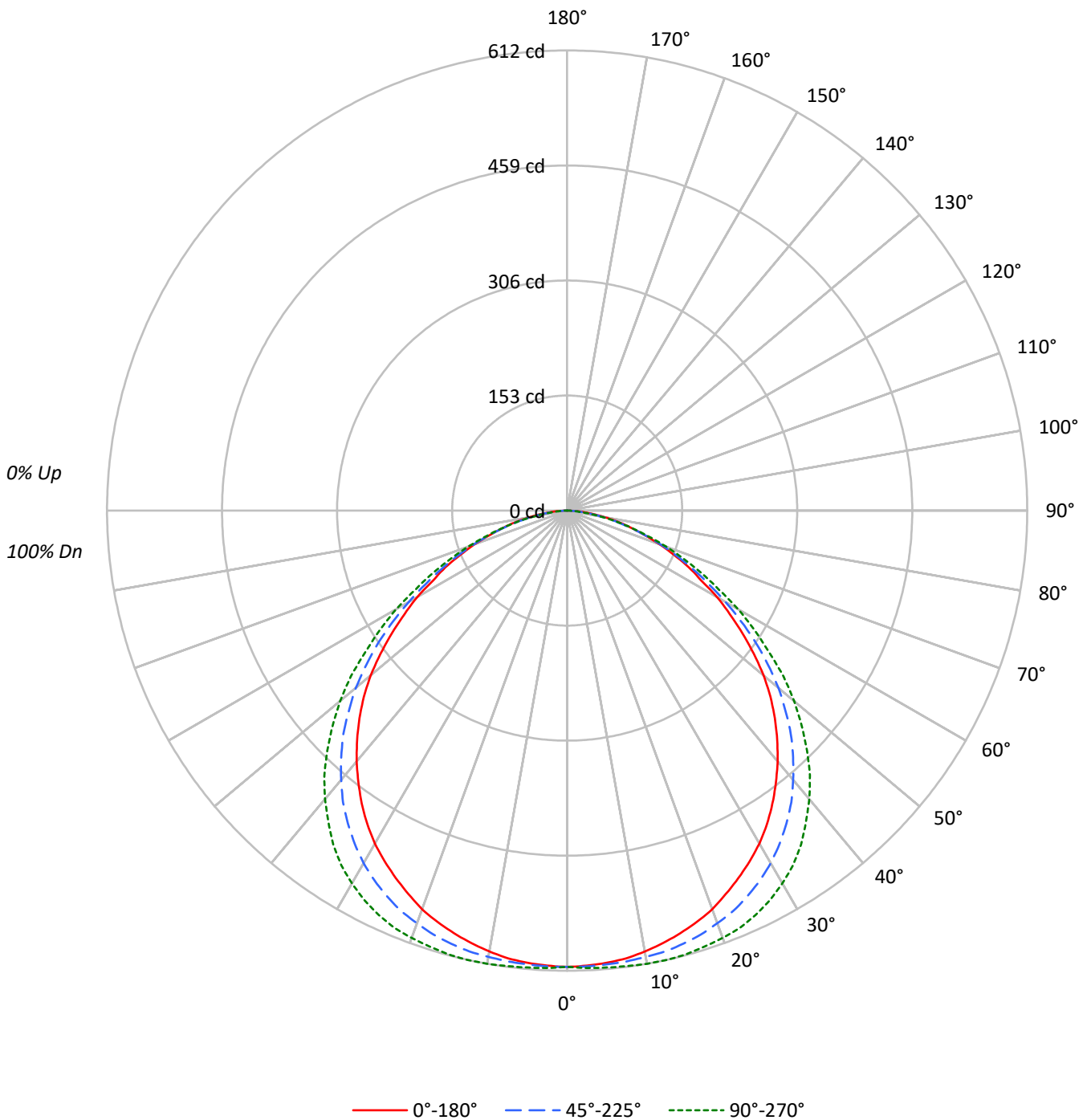
Input Watts (W): 19.251  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1633	1633	1633
5°	1631	1636	1648
10°	1627	1647	1673
15°	1621	1662	1702
20°	1616	1672	1732
25°	1601	1682	1762
30°	1589	1682	1779
35°	1564	1669	1782
40°	1529	1643	1760
45°	1487	1602	1716
50°	1427	1536	1649
55°	1336	1438	1536
60°	1242	1309	1415
65°	1138	1178	1257
70°	1030	1046	1096
75°	908	886	918
80°	789	725	693
85°	642	482	417



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	3.4
10°-20°	168.5	9.9
20°-30°	261.1	15.4
30°-40°	317.7	18.7
40°-50°	323.6	19.0
50°-60°	272.9	16.1
60°-70°	184.6	10.9
70°-80°	92.3	5.4
80°-90°	20.5	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°	487.4	28.7
0°-40°	805.1	47.4
0°-60°	1401.6	82.5
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	604	605	606	609	610	57
15°	582	586	596	607	611	164
25°	539	548	566	585	593	249
35°	476	486	508	532	542	297
45°	391	398	421	443	451	301
55°	285	289	307	321	327	255
65°	179	176	185	193	197	177
75°	87	84	85	86	88	94
85°	21	18	16	14	14	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.9	606.9	606.9	606.9	606.9
2.5°	605.8	605.8	606.9	607.9	609.0
5°	603.8	604.8	605.8	609.0	610.0
7.5°	600.7	601.7	604.8	609.0	611.0
10°	595.5	597.5	602.7	609.0	612.1
12.5°	589.2	592.3	600.7	607.9	612.1
15°	581.9	586.1	596.5	606.9	611.0
17.5°	573.6	578.8	591.3	602.7	607.9
20°	564.3	570.5	584.0	598.6	604.8
22.5°	551.8	560.1	576.8	593.4	600.7
25°	539.3	547.7	566.4	585.1	593.4
27.5°	525.8	535.2	554.9	575.7	584.0
30°	511.3	519.6	541.4	563.2	572.6
32.5°	494.7	503.0	525.8	548.7	559.1
35°	476.0	486.3	508.2	532.1	542.5
37.5°	456.2	465.6	489.5	512.3	521.7
40°	435.4	444.8	467.6	491.5	500.9
42.5°	413.6	423.0	444.8	467.6	478.0
45°	390.7	398.0	420.9	442.7	451.0
47.5°	366.8	372.0	393.9	414.6	423.0
50°	340.9	346.1	366.8	385.5	393.9
52.5°	312.8	317.0	336.7	353.3	362.7
55°	284.7	288.9	306.6	321.1	327.3
57.5°	256.7	258.8	274.3	288.9	295.1
60°	230.7	230.7	243.2	254.6	262.9
62.5°	200.6	203.7	213.0	224.5	227.6
65°	178.7	175.6	185.0	193.3	197.4
67.5°	153.8	151.7	158.0	165.2	167.3
70°	130.9	127.8	133.0	137.2	139.3
72.5°	107.0	106.0	108.1	111.2	112.2
75°	87.3	84.2	85.2	86.3	88.3
77.5°	69.6	64.4	65.5	64.4	65.5
80°	50.9	46.8	46.8	45.7	44.7
82.5°	34.3	32.2	30.1	28.1	27.0
85°	20.8	17.7	15.6	13.5	13.5
87.5°	8.3	6.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)