

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: P296573

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296573
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-L82765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1589.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

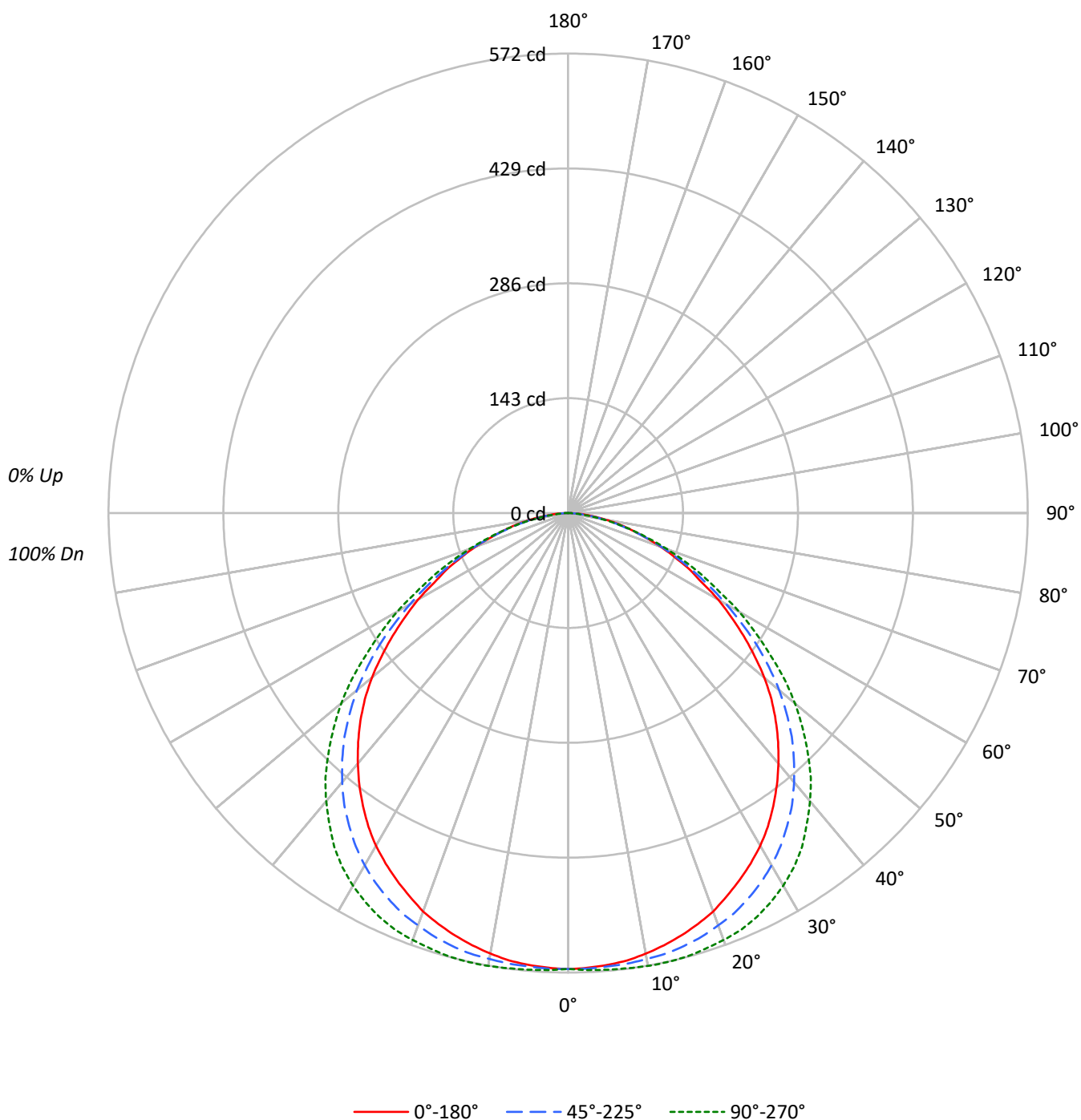
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	1527	1527	1527
5°	1525	1531	1541
10°	1522	1540	1564
15°	1516	1554	1592
20°	1511	1564	1620
25°	1498	1573	1648
30°	1486	1574	1664
35°	1462	1561	1667
40°	1430	1537	1646
45°	1391	1498	1605
50°	1335	1436	1542
55°	1249	1345	1437
60°	1161	1224	1323
65°	1065	1102	1176
70°	964	979	1024
75°	848	829	859
80°	738	677	648
85°	599	451	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.4
10°-20°	157.6	9.9
20°-30°	244.2	15.4
30°-40°	297.2	18.7
40°-50°	302.7	19.0
50°-60°	255.2	16.1
60°-70°	172.6	10.9
70°-80°	86.3	5.4
80°-90°	19.2	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°	455.8	28.7
0°-40°	753.0	47.4
0°-60°	1310.9	82.5
0°-90°	1589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	565	566	567	570	570	54
15°	544	548	558	568	572	154
25°	504	512	530	547	555	233
35°	445	455	475	498	507	278
45°	365	372	394	414	422	281
55°	266	270	287	300	306	238
65°	167	164	173	181	185	165
75°	82	79	80	81	83	87
85°	19	16	15	13	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.6	567.6	567.6	567.6	567.6
2.5°	566.6	566.6	567.6	568.6	569.5
5°	564.7	565.7	566.6	569.5	570.5
7.5°	561.8	562.7	565.7	569.5	571.5
10°	556.9	558.8	563.7	569.5	572.5
12.5°	551.1	554.0	561.8	568.6	572.5
15°	544.3	548.2	557.9	567.6	571.5
17.5°	536.5	541.4	553.0	563.7	568.6
20°	527.7	533.6	546.2	559.8	565.7
22.5°	516.1	523.9	539.4	555.0	561.8
25°	504.4	512.2	529.7	547.2	555.0
27.5°	491.8	500.5	519.0	538.4	546.2
30°	478.2	486.0	506.4	526.8	535.5
32.5°	462.6	470.4	491.8	513.2	522.9
35°	445.1	454.9	475.3	497.6	507.3
37.5°	426.7	435.4	457.8	479.2	487.9
40°	407.2	416.0	437.4	459.7	468.5
42.5°	386.8	395.6	416.0	437.4	447.1
45°	365.4	372.2	393.6	414.0	421.8
47.5°	343.1	347.9	368.4	387.8	395.6
50°	318.8	323.6	343.1	360.6	368.4
52.5°	292.5	296.4	314.9	330.4	339.2
55°	266.3	270.2	286.7	300.3	306.2
57.5°	240.1	242.0	256.6	270.2	276.0
60°	215.8	215.8	227.4	238.1	245.9
62.5°	187.6	190.5	199.2	209.9	212.8
65°	167.2	164.3	173.0	180.8	184.7
67.5°	143.8	141.9	147.7	154.5	156.5
70°	122.5	119.5	124.4	128.3	130.2
72.5°	100.1	99.1	101.1	104.0	105.0
75°	81.6	78.7	79.7	80.7	82.6
77.5°	65.1	60.3	61.2	60.3	61.2
80°	47.6	43.7	43.7	42.8	41.8
82.5°	32.1	30.1	28.2	26.2	25.3
85°	19.4	16.5	14.6	12.6	12.6
87.5°	7.8	5.8	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)