

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: P296661

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296661
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

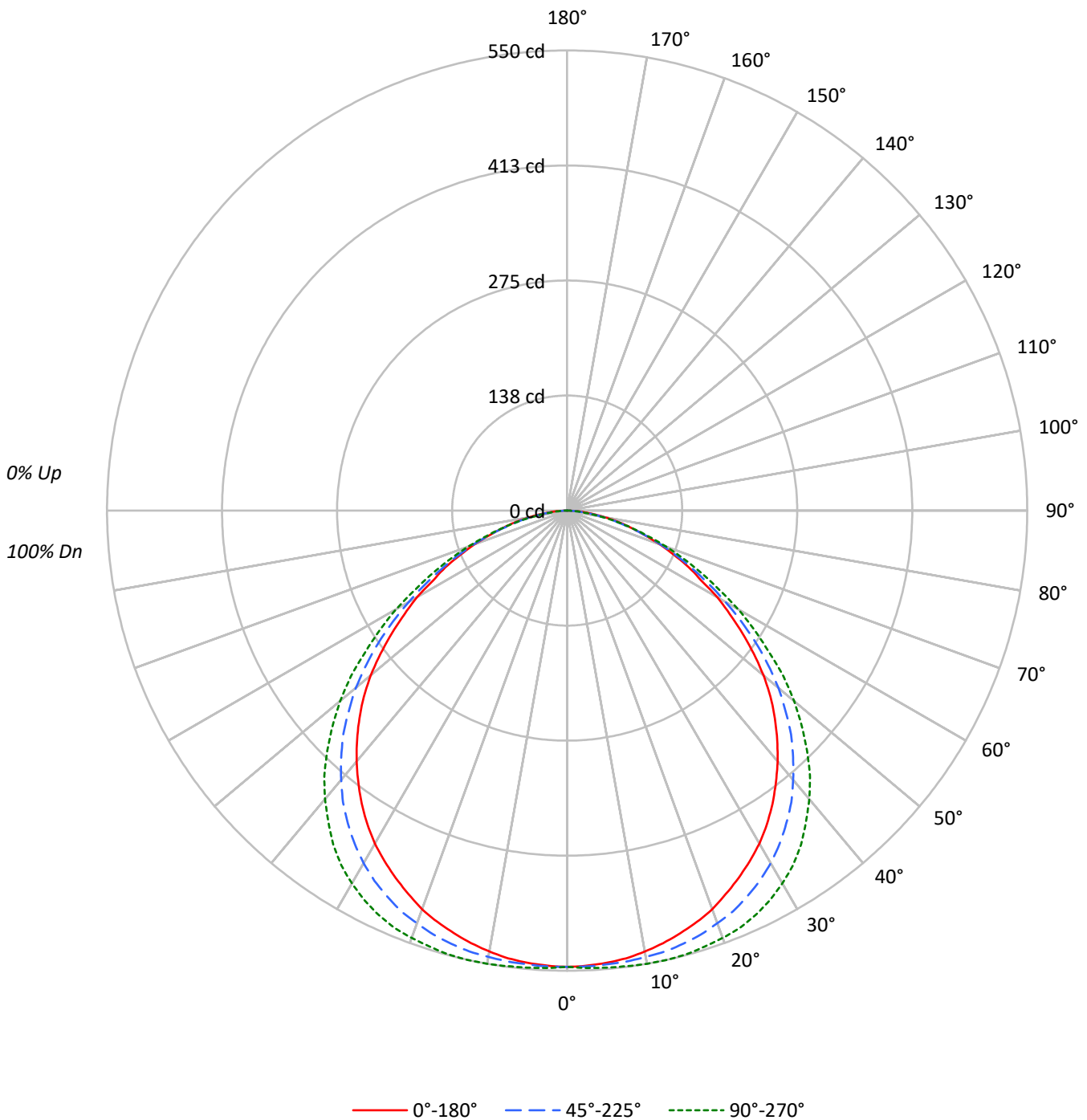
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1468	1468	1468
5°	1466	1471	1481
10°	1462	1480	1503
15°	1457	1494	1530
20°	1452	1503	1557
25°	1439	1511	1583
30°	1428	1512	1599
35°	1405	1500	1601
40°	1375	1476	1581
45°	1337	1440	1543
50°	1282	1380	1482
55°	1201	1293	1380
60°	1116	1176	1272
65°	1023	1059	1130
70°	926	941	985
75°	816	796	826
80°	710	651	623
85°	577	432	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.4
10°-20°	151.4	9.9
20°-30°	234.6	15.4
30°-40°	285.6	18.7
40°-50°	290.8	19.0
50°-60°	245.3	16.1
60°-70°	165.9	10.9
70°-80°	82.9	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°	438.0	28.7
0°-40°	723.6	47.4
0°-60°	1259.7	82.5
0°-90°	1527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	543	544	544	547	548	52
15°	523	527	536	545	549	148
25°	485	492	509	526	533	223
35°	428	437	457	478	488	267
45°	351	358	378	398	405	270
55°	256	260	276	289	294	229
65°	161	158	166	174	178	159
75°	78	76	77	78	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°	545.4	545.4	545.4	545.4	545.4
2.5°	544.5	544.5	545.4	546.4	547.3
5°	542.6	543.6	544.5	547.3	548.3
7.5°	539.8	540.8	543.6	547.3	549.2
10°	535.2	537.0	541.7	547.3	550.1
12.5°	529.6	532.4	539.8	546.4	550.1
15°	523.0	526.8	536.1	545.4	549.2
17.5°	515.6	520.2	531.4	541.7	546.4
20°	507.2	512.8	524.9	538.0	543.6
22.5°	495.9	503.4	518.4	533.3	539.8
25°	484.7	492.2	509.0	525.8	533.3
27.5°	472.6	481.0	498.8	517.4	524.9
30°	459.5	467.0	486.6	506.2	514.6
32.5°	444.6	452.1	472.6	493.1	502.5
35°	427.8	437.1	456.7	478.2	487.5
37.5°	410.0	418.4	439.9	460.5	468.9
40°	391.3	399.7	420.3	441.8	450.2
42.5°	371.7	380.1	399.7	420.3	429.6
45°	351.2	357.7	378.3	397.9	405.4
47.5°	329.7	334.4	354.0	372.7	380.1
50°	306.3	311.0	329.7	346.5	354.0
52.5°	281.1	284.9	302.6	317.6	326.0
55°	255.9	259.6	275.5	288.6	294.2
57.5°	230.7	232.6	246.6	259.6	265.3
60°	207.3	207.3	218.6	228.8	236.3
62.5°	180.3	183.1	191.5	201.7	204.5
65°	160.6	157.8	166.3	173.7	177.5
67.5°	138.2	136.4	142.0	148.5	150.4
70°	117.7	114.9	119.6	123.3	125.2
72.5°	96.2	95.3	97.1	99.9	100.9
75°	78.5	75.7	76.6	77.5	79.4
77.5°	62.6	57.9	58.8	57.9	58.8
80°	45.8	42.0	42.0	41.1	40.2
82.5°	30.8	29.0	27.1	25.2	24.3
85°	18.7	15.9	14.0	12.1	12.1
87.5°	7.5	5.6	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)