

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: P296662

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296662
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1534.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

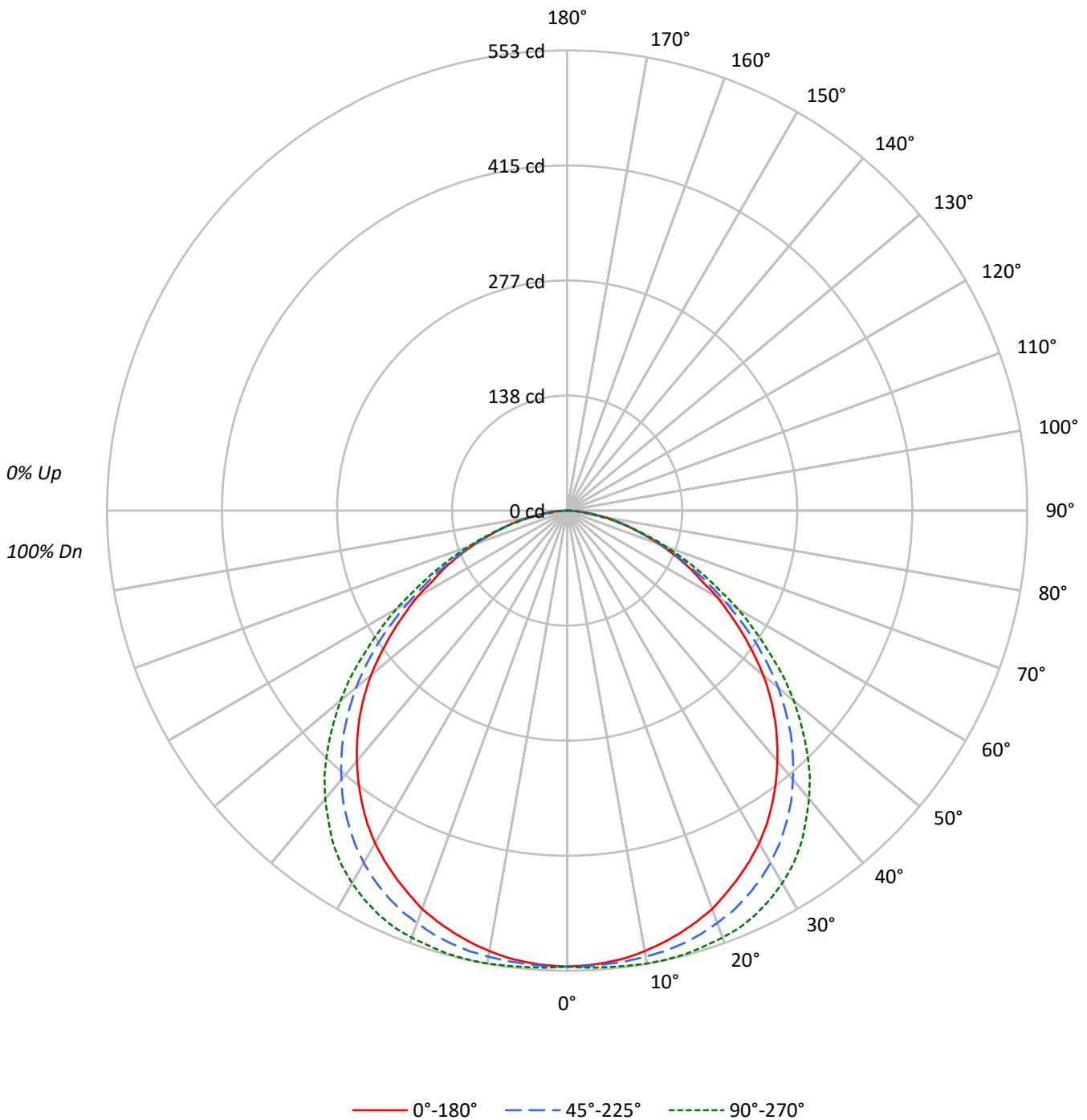
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1475	1475	1475
5°	1472	1478	1488
10°	1469	1487	1510
15°	1464	1500	1537
20°	1459	1510	1564
25°	1446	1518	1591
30°	1434	1519	1606
35°	1412	1507	1609
40°	1381	1483	1588
45°	1343	1446	1550
50°	1289	1387	1489
55°	1206	1299	1387
60°	1121	1182	1278
65°	1028	1063	1135
70°	930	945	989
75°	819	800	830
80°	713	654	625
85°	580	435	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.4
10°-20°	152.1	9.9
20°-30°	235.7	15.4
30°-40°	286.9	18.7
40°-50°	292.2	19.0
50°-60°	246.4	16.1
60°-70°	166.7	10.9
70°-80°	83.3	5.4
80°-90°	18.5	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°	440.0	28.7
0°-40°	726.9	47.4
0°-60°	1265.5	82.5
0°-90°	1534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	545	546	547	550	551	52
15°	525	529	539	548	552	148
25°	487	494	511	528	536	224
35°	430	439	459	480	490	269
45°	353	359	380	400	407	272
55°	257	261	277	290	296	230
65°	161	159	167	174	178	159
75°	79	76	77	78	80	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°	548.0	548.0	548.0	548.0	548.0
2.5°	547.0	547.0	548.0	548.9	549.8
5°	545.1	546.1	547.0	549.8	550.8
7.5°	542.3	543.3	546.1	549.8	551.7
10°	537.6	539.5	544.2	549.8	552.6
12.5°	532.0	534.8	542.3	548.9	552.6
15°	525.4	529.2	538.6	548.0	551.7
17.5°	517.9	522.6	533.9	544.2	548.9
20°	509.5	515.1	527.3	540.4	546.1
22.5°	498.2	505.7	520.7	535.8	542.3
25°	487.0	494.5	511.4	528.2	535.8
27.5°	474.8	483.2	501.0	519.8	527.3
30°	461.6	469.1	488.8	508.5	517.0
32.5°	446.6	454.1	474.8	495.4	504.8
35°	429.7	439.1	458.8	480.4	489.8
37.5°	411.9	420.3	441.9	462.6	471.0
40°	393.1	401.6	422.2	443.8	452.2
42.5°	373.4	381.9	401.6	422.2	431.6
45°	352.8	359.4	380.0	399.7	407.2
47.5°	331.2	335.9	355.6	374.4	381.9
50°	307.8	312.4	331.2	348.1	355.6
52.5°	282.4	286.2	304.0	319.0	327.5
55°	257.1	260.8	276.8	289.9	295.6
57.5°	231.8	233.6	247.7	260.8	266.5
60°	208.3	208.3	219.6	229.9	237.4
62.5°	181.1	183.9	192.3	202.7	205.5
65°	161.4	158.6	167.0	174.5	178.3
67.5°	138.9	137.0	142.6	149.2	151.1
70°	118.2	115.4	120.1	123.9	125.7
72.5°	96.6	95.7	97.6	100.4	101.3
75°	78.8	76.0	76.9	77.9	79.8
77.5°	62.9	58.2	59.1	58.2	59.1
80°	46.0	42.2	42.2	41.3	40.3
82.5°	31.0	29.1	27.2	25.3	24.4
85°	18.8	16.0	14.1	12.2	12.2
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)