

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: P296577

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296577
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1692.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

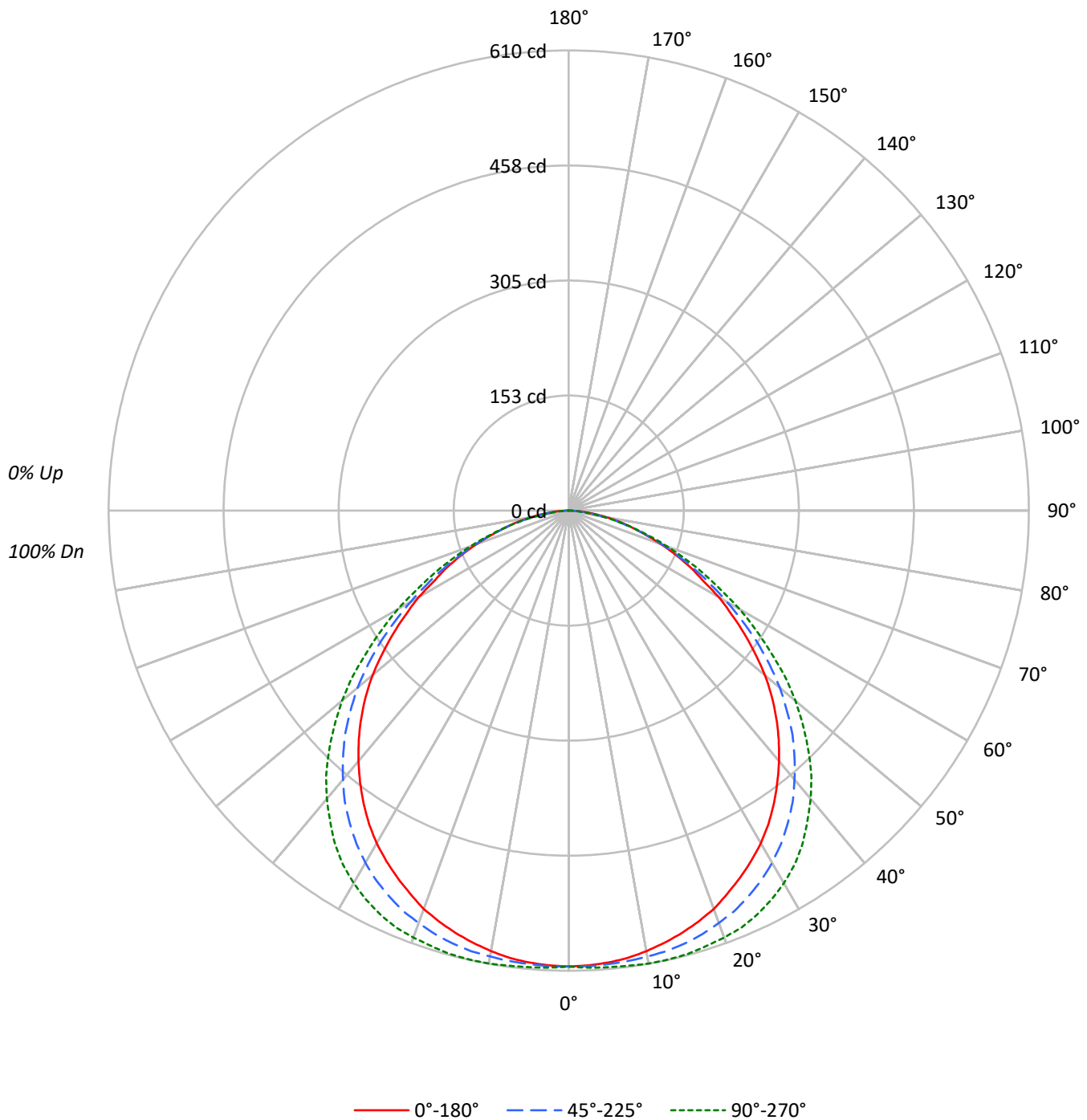
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	1626	1626	1626
5°	1624	1630	1641
10°	1620	1640	1666
15°	1615	1655	1695
20°	1609	1666	1725
25°	1595	1675	1754
30°	1582	1675	1772
35°	1557	1663	1775
40°	1523	1636	1752
45°	1481	1595	1709
50°	1421	1529	1642
55°	1331	1432	1529
60°	1237	1304	1409
65°	1133	1173	1252
70°	1026	1042	1091
75°	904	883	915
80°	786	722	690
85°	639	479	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.4
10°-20°	167.8	9.9
20°-30°	260.0	15.4
30°-40°	316.4	18.7
40°-50°	322.3	19.0
50°-60°	271.8	16.1
60°-70°	183.8	10.9
70°-80°	91.9	5.4
80°-90°	20.4	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°	485.4	28.7
0°-40°	801.8	47.4
0°-60°	1395.8	82.5
0°-90°	1692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	601	602	603	606	608	57
15°	580	584	594	604	608	164
25°	537	545	564	583	591	248
35°	474	484	506	530	540	296
45°	389	396	419	441	449	300
55°	284	288	305	320	326	254
65°	178	175	184	192	197	176
75°	87	84	85	86	88	93
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°	604.4	604.4	604.4	604.4	604.4
2.5°	603.4	603.4	604.4	605.4	606.5
5°	601.3	602.3	603.4	606.5	607.5
7.5°	598.2	599.2	602.3	606.5	608.5
10°	593.0	595.1	600.2	606.5	609.6
12.5°	586.8	589.9	598.2	605.4	609.6
15°	579.6	583.7	594.0	604.4	608.5
17.5°	571.3	576.4	588.9	600.2	605.4
20°	562.0	568.2	581.6	596.1	602.3
22.5°	549.5	557.8	574.4	590.9	598.2
25°	537.1	545.4	564.0	582.7	590.9
27.5°	523.7	533.0	552.6	573.3	581.6
30°	509.2	517.5	539.2	560.9	570.2
32.5°	492.6	500.9	523.7	546.4	556.8
35°	474.0	484.3	506.1	529.9	540.2
37.5°	454.3	463.6	487.4	510.2	519.5
40°	433.6	442.9	465.7	489.5	498.8
42.5°	411.9	421.2	442.9	465.7	476.1
45°	389.1	396.4	419.1	440.9	449.2
47.5°	365.3	370.5	392.2	412.9	421.2
50°	339.5	344.6	365.3	384.0	392.2
52.5°	311.5	315.6	335.3	351.9	361.2
55°	283.6	287.7	305.3	319.8	326.0
57.5°	255.6	257.7	273.2	287.7	293.9
60°	229.8	229.8	242.2	253.6	261.8
62.5°	199.7	202.8	212.2	223.5	226.6
65°	178.0	174.9	184.2	192.5	196.6
67.5°	153.2	151.1	157.3	164.6	166.6
70°	130.4	127.3	132.5	136.6	138.7
72.5°	106.6	105.6	107.6	110.7	111.8
75°	86.9	83.8	84.9	85.9	88.0
77.5°	69.3	64.2	65.2	64.2	65.2
80°	50.7	46.6	46.6	45.5	44.5
82.5°	34.2	32.1	30.0	27.9	26.9
85°	20.7	17.6	15.5	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)