

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: P296578

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296578
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1696.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

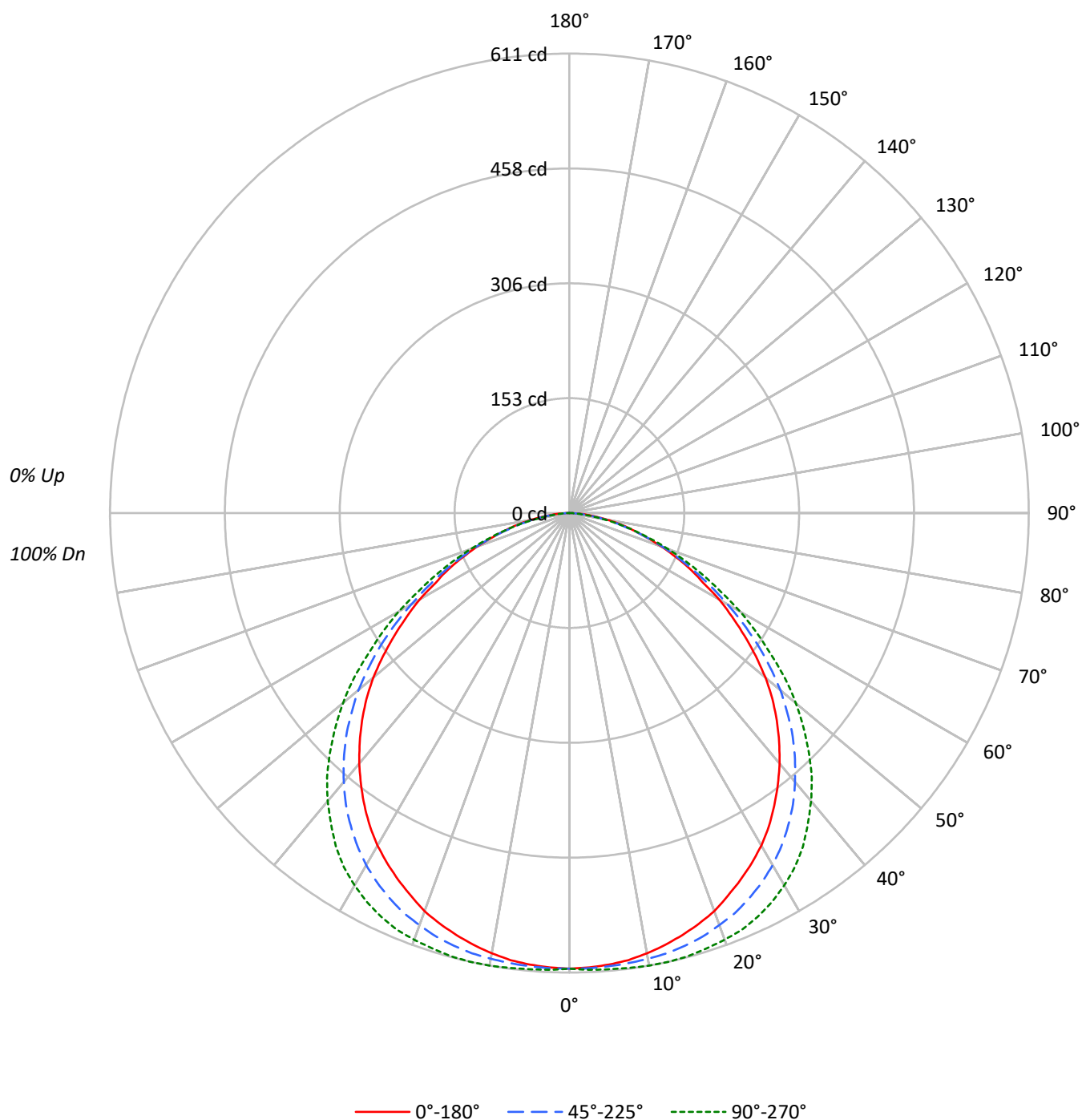
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1630	1630	1630
5°	1628	1634	1645
10°	1624	1644	1670
15°	1618	1659	1699
20°	1613	1670	1729
25°	1599	1679	1759
30°	1586	1679	1776
35°	1561	1667	1779
40°	1527	1640	1756
45°	1484	1599	1713
50°	1425	1533	1646
55°	1333	1436	1533
60°	1239	1306	1413
65°	1136	1175	1255
70°	1028	1045	1094
75°	906	885	917
80°	787	724	691
85°	639	482	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.4
10°-20°	168.2	9.9
20°-30°	260.6	15.4
30°-40°	317.2	18.7
40°-50°	323.0	19.0
50°-60°	272.4	16.1
60°-70°	184.3	10.9
70°-80°	92.1	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°	486.5	28.7
0°-40°	803.7	47.4
0°-60°	1399.1	82.5
0°-90°	1696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	603	604	605	608	609	57
15°	581	585	595	606	610	164
25°	538	547	565	584	592	248
35°	475	486	507	531	542	297
45°	390	397	420	442	450	300
55°	284	288	306	320	327	254
65°	178	175	185	193	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°	605.8	605.8	605.8	605.8	605.8
2.5°	604.8	604.8	605.8	606.9	607.9
5°	602.7	603.7	604.8	607.9	608.9
7.5°	599.6	600.6	603.7	607.9	610.0
10°	594.4	596.5	601.7	607.9	611.0
12.5°	588.2	591.3	599.6	606.9	611.0
15°	580.9	585.1	595.4	605.8	610.0
17.5°	572.6	577.8	590.3	601.7	606.9
20°	563.3	569.5	583.0	597.5	603.7
22.5°	550.8	559.1	575.7	592.3	599.6
25°	538.4	546.7	565.4	584.0	592.3
27.5°	524.9	534.2	553.9	574.7	583.0
30°	510.4	518.7	540.5	562.2	571.6
32.5°	493.8	502.1	524.9	547.7	558.1
35°	475.1	485.5	507.3	531.1	541.5
37.5°	455.4	464.7	488.6	511.4	520.8
40°	434.7	444.0	466.8	490.7	500.0
42.5°	412.9	422.2	444.0	466.8	477.2
45°	390.0	397.3	420.1	441.9	450.2
47.5°	366.2	371.4	393.2	413.9	422.2
50°	340.3	345.4	366.2	384.9	393.2
52.5°	312.2	316.4	336.1	352.7	362.0
55°	284.2	288.4	306.0	320.5	326.8
57.5°	256.2	258.3	273.9	288.4	294.6
60°	230.3	230.3	242.7	254.2	262.5
62.5°	200.2	203.3	212.7	224.1	227.2
65°	178.4	175.3	184.6	192.9	197.1
67.5°	153.5	151.5	157.7	164.9	167.0
70°	130.7	127.6	132.8	136.9	139.0
72.5°	106.8	105.8	107.9	111.0	112.0
75°	87.1	84.0	85.1	86.1	88.2
77.5°	69.5	64.3	65.4	64.3	65.4
80°	50.8	46.7	46.7	45.6	44.6
82.5°	34.2	32.2	30.1	28.0	27.0
85°	20.7	17.6	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)