

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: P296545

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296545
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-L83050-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

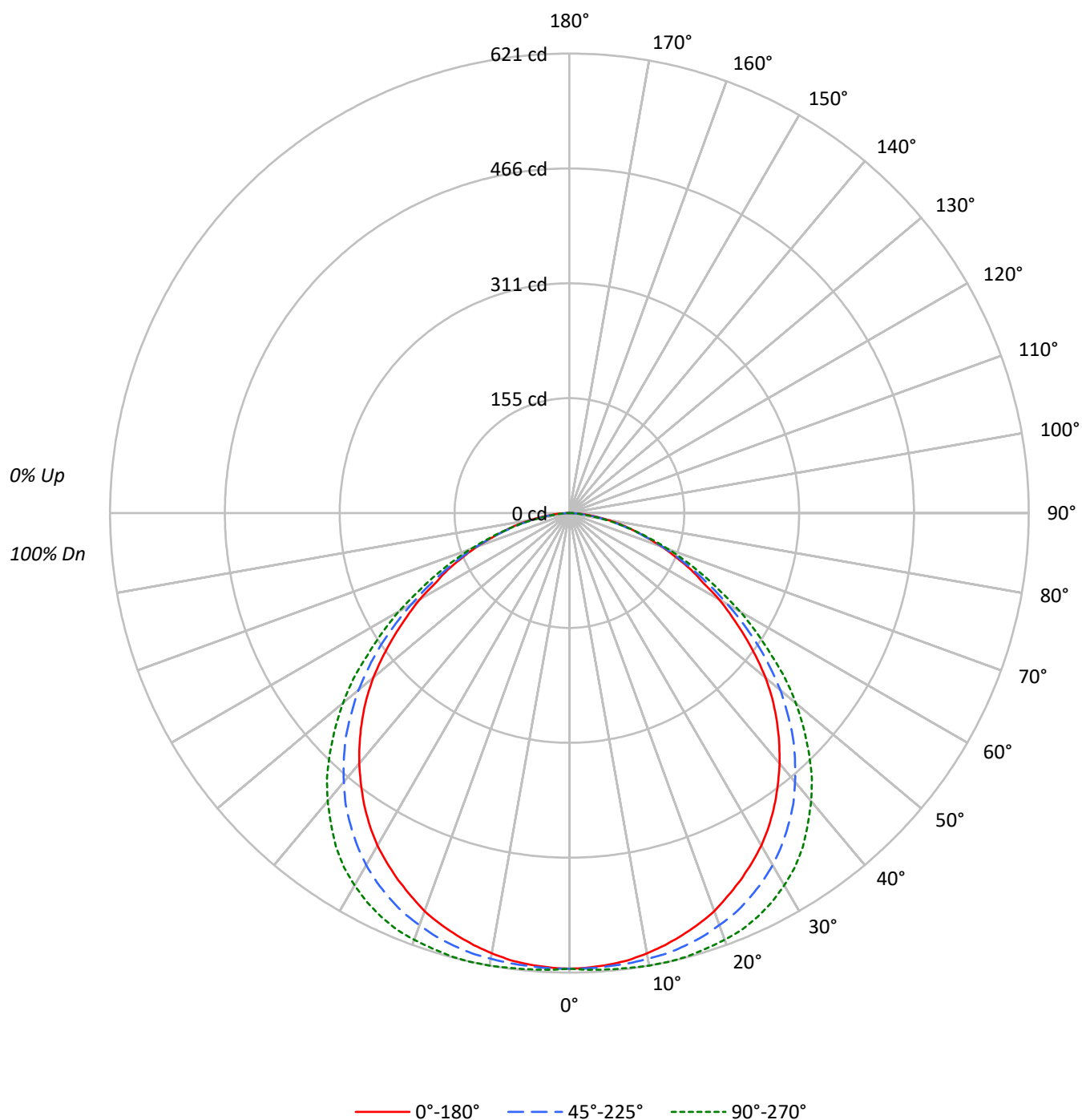
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1657	1657	1657
5°	1655	1661	1672
10°	1651	1671	1697
15°	1645	1686	1727
20°	1640	1697	1757
25°	1625	1706	1788
30°	1612	1707	1805
35°	1587	1694	1808
40°	1552	1667	1786
45°	1509	1625	1741
50°	1448	1558	1673
55°	1355	1460	1559
60°	1260	1328	1436
65°	1155	1195	1276
70°	1046	1062	1112
75°	921	899	932
80°	801	736	702
85°	651	488	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.4
10°-20°	171.0	9.9
20°-30°	264.9	15.4
30°-40°	322.4	18.7
40°-50°	328.4	19.0
50°-60°	276.9	16.1
60°-70°	187.3	10.9
70°-80°	93.6	5.4
80°-90°	20.8	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°	494.5	28.7
0°-40°	817.0	47.4
0°-60°	1422.2	82.5
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	613	614	615	618	619	58
15°	590	595	605	616	620	167
25°	547	556	575	594	602	252
35°	483	494	516	540	550	302
45°	396	404	427	449	458	305
55°	289	293	311	326	332	258
65°	181	178	188	196	200	179
75°	89	85	86	88	90	95
85°	21	18	16	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.8	615.8	615.8	615.8	615.8
2.5°	614.8	614.8	615.8	616.9	617.9
5°	612.7	613.7	614.8	617.9	619.0
7.5°	609.5	610.5	613.7	617.9	620.0
10°	604.2	606.3	611.6	617.9	621.1
12.5°	597.9	601.1	609.5	616.9	621.1
15°	590.5	594.7	605.3	615.8	620.0
17.5°	582.1	587.3	600.0	611.6	616.9
20°	572.6	578.9	592.6	607.4	613.7
22.5°	559.9	568.4	585.2	602.1	609.5
25°	547.3	555.7	574.7	593.7	602.1
27.5°	533.6	543.1	563.1	584.2	592.6
30°	518.8	527.2	549.4	571.5	581.0
32.5°	501.9	510.4	533.6	556.8	567.3
35°	483.0	493.5	515.6	539.9	550.4
37.5°	462.9	472.4	496.7	519.9	529.4
40°	441.8	451.3	474.5	498.8	508.3
42.5°	419.7	429.2	451.3	474.5	485.1
45°	396.5	403.9	427.1	449.2	457.6
47.5°	372.2	377.5	399.6	420.7	429.2
50°	345.9	351.1	372.2	391.2	399.6
52.5°	317.4	321.6	341.7	358.5	368.0
55°	288.9	293.1	311.1	325.8	332.2
57.5°	260.5	262.6	278.4	293.1	299.5
60°	234.1	234.1	246.7	258.3	266.8
62.5°	203.5	206.7	216.2	227.8	230.9
65°	181.4	178.2	187.7	196.1	200.4
67.5°	156.1	154.0	160.3	167.7	169.8
70°	132.9	129.7	135.0	139.2	141.3
72.5°	108.6	107.6	109.7	112.8	113.9
75°	88.6	85.4	86.5	87.5	89.6
77.5°	70.7	65.4	66.4	65.4	66.4
80°	51.7	47.5	47.5	46.4	45.3
82.5°	34.8	32.7	30.6	28.5	27.4
85°	21.1	17.9	15.8	13.7	13.7
87.5°	8.4	6.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)