

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: P296489

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1716.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

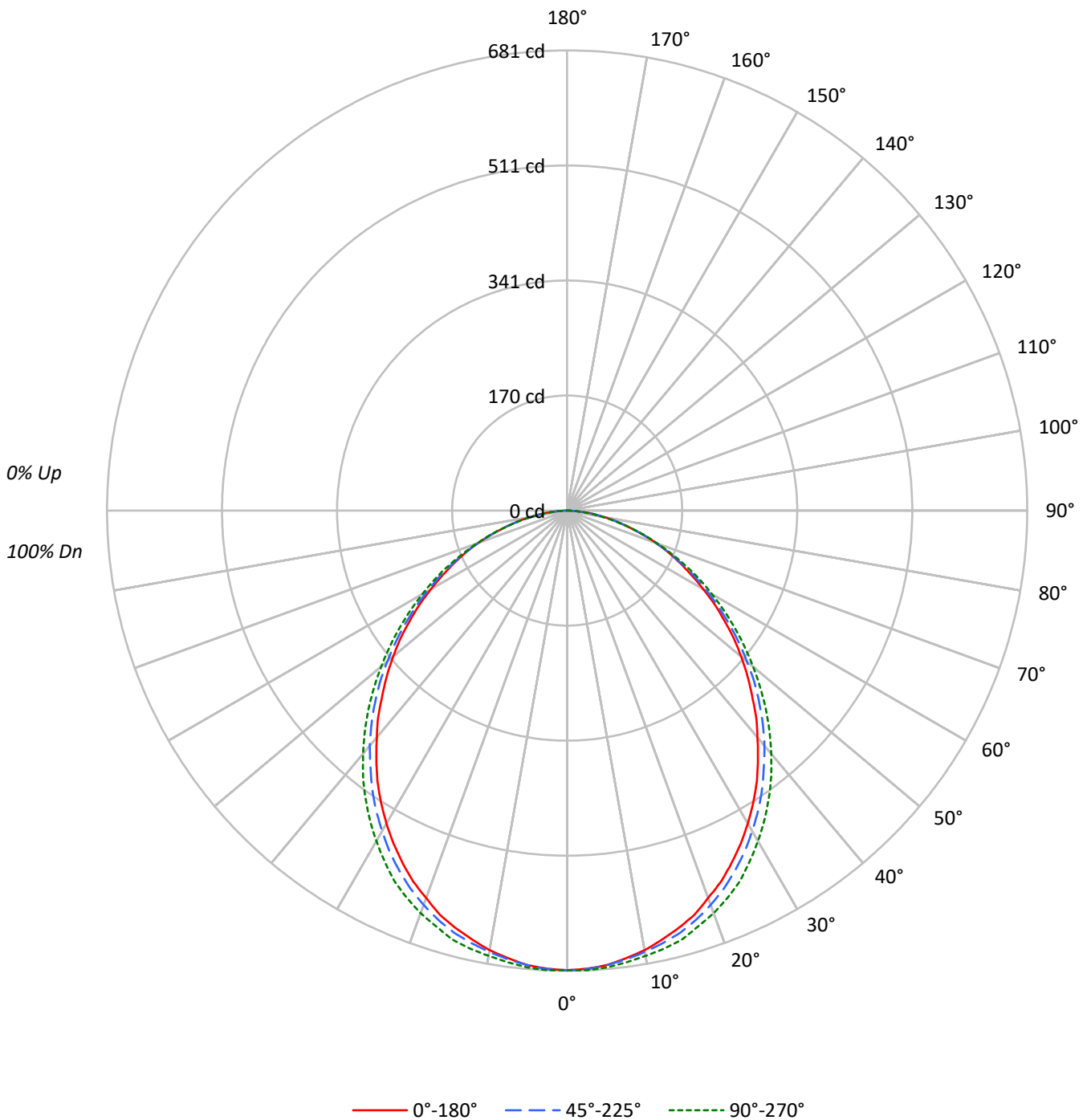
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1830	1830	1830
5°	1824	1824	1833
10°	1805	1812	1828
15°	1780	1802	1831
20°	1747	1779	1816
25°	1710	1745	1796
30°	1661	1702	1755
35°	1608	1653	1709
40°	1539	1596	1650
45°	1472	1530	1582
50°	1407	1454	1504
55°	1333	1373	1421
60°	1252	1285	1331
65°	1177	1198	1237
70°	1098	1098	1117
75°	978	978	978
80°	862	835	835
85°	685	661	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.7
10°-20°	182.4	10.6
20°-30°	270.9	15.8
30°-40°	314.4	18.3
40°-50°	309.6	18.0
50°-60°	262.0	15.3
60°-70°	186.8	10.9
70°-80°	100.4	5.9
80°-90°	25.3	1.5
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°	517.4	30.2
0°-40°	831.8	48.5
0°-60°	1403.4	81.8
0°-90°	1716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	675	675	675	678	678	64
15°	639	641	647	653	657	180
25°	576	578	588	599	605	265
35°	489	490	503	515	520	305
45°	387	389	402	412	416	299
55°	284	285	293	300	303	254
65°	185	185	188	192	194	183
75°	94	93	94	94	94	101
85°	22	21	21	20	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.2	680.2	680.2	680.2	680.2
2.5°	678.5	678.5	679.3	680.2	681.0
5°	675.1	675.1	675.1	677.6	678.5
7.5°	668.2	669.1	669.9	672.5	674.2
10°	660.5	661.4	663.1	667.4	669.1
12.5°	650.2	652.8	655.4	661.4	663.9
15°	639.1	640.8	646.8	652.8	657.1
17.5°	627.1	628.0	634.8	643.4	645.1
20°	610.0	612.6	621.1	629.7	634.0
22.5°	594.6	596.3	605.7	616.9	620.3
25°	575.8	577.5	587.8	598.9	604.9
27.5°	556.1	557.8	569.0	580.9	585.2
30°	534.7	536.4	547.6	560.4	564.7
32.5°	512.5	514.2	526.2	537.3	543.3
35°	489.4	490.2	503.1	515.1	520.2
37.5°	463.7	466.3	478.3	490.2	496.2
40°	438.1	440.6	454.3	465.4	469.7
42.5°	414.1	417.5	428.6	438.9	443.2
45°	386.7	389.3	402.1	411.5	415.8
47.5°	361.9	364.5	375.6	385.0	387.6
50°	336.2	338.0	347.4	355.9	359.3
52.5°	310.6	311.4	320.0	328.5	331.1
55°	284.1	284.9	292.6	300.3	302.9
57.5°	259.2	259.2	266.1	272.1	274.6
60°	232.7	232.7	238.7	244.7	247.3
62.5°	207.9	207.9	213.9	218.2	221.6
65°	184.8	184.8	188.2	191.6	194.2
67.5°	162.6	160.0	163.4	167.7	166.8
70°	139.5	136.9	139.5	141.2	142.0
72.5°	116.4	114.6	116.4	117.2	118.9
75°	94.1	93.3	94.1	94.1	94.1
77.5°	75.3	72.7	74.4	73.6	72.7
80°	55.6	54.8	53.9	53.0	53.9
82.5°	38.5	37.6	37.6	35.9	35.9
85°	22.2	21.4	21.4	19.7	19.7
87.5°	8.6	8.6	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)