

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: P296542

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296542
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1627.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

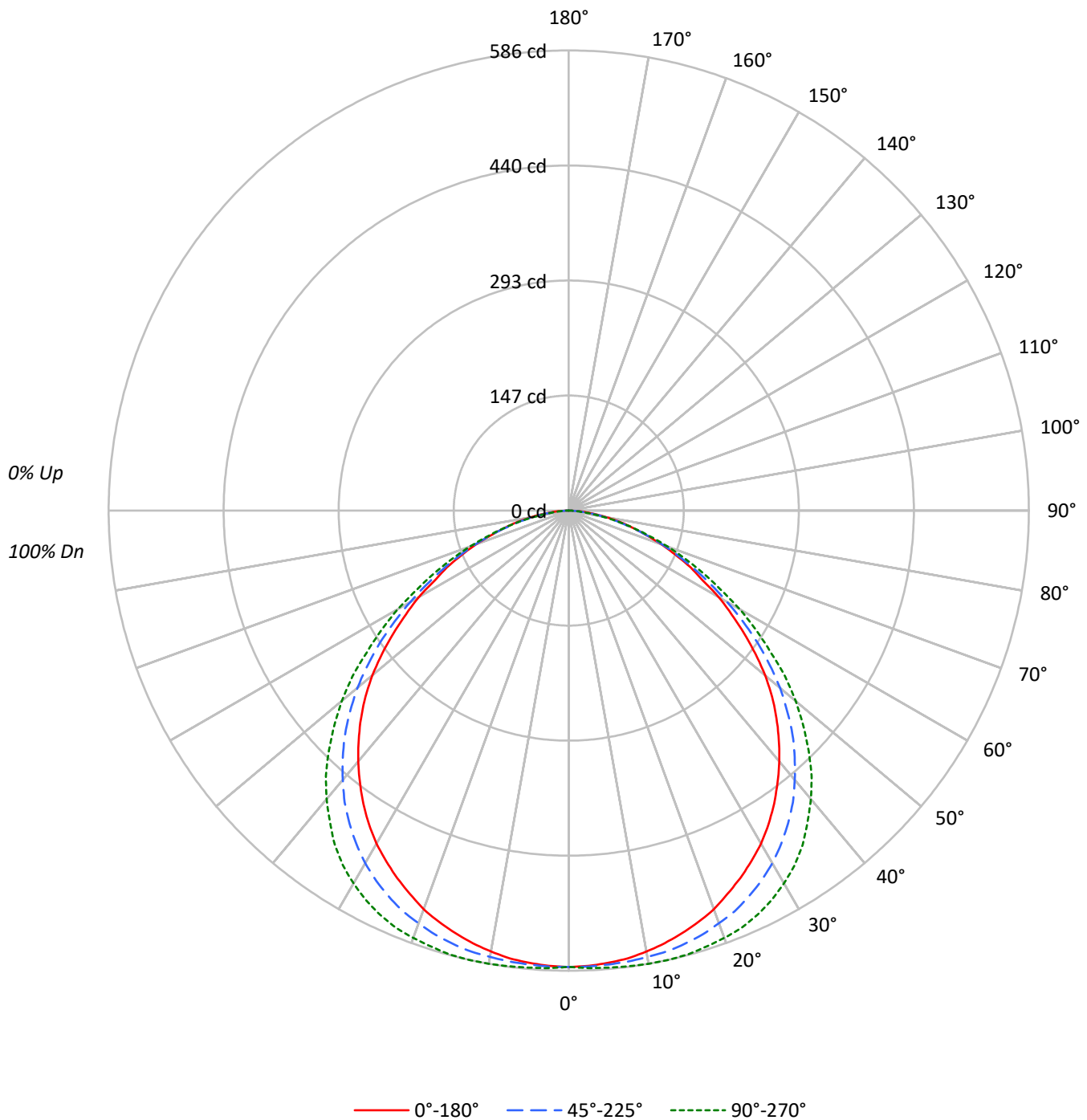
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296542

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P296542

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1564	1564	1564
5°	1562	1567	1578
10°	1558	1577	1602
15°	1553	1591	1630
20°	1548	1602	1659
25°	1534	1610	1687
30°	1521	1611	1704
35°	1497	1599	1707
40°	1465	1573	1685
45°	1424	1534	1644
50°	1366	1471	1579
55°	1279	1377	1471
60°	1189	1253	1355
65°	1090	1128	1204
70°	987	1002	1050
75°	869	848	880
80°	756	694	663
85°	614	460	398



TEST NUMBER: P296542

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.4
10°-20°	161.4	9.9
20°-30°	250.0	15.4
30°-40°	304.3	18.7
40°-50°	309.9	19.0
50°-60°	261.3	16.1
60°-70°	176.8	10.9
70°-80°	88.4	5.4
80°-90°	19.7	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°	466.7	28.7
0°-40°	771.0	47.4
0°-60°	1342.2	82.5
0°-90°	1627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	578	579	580	583	584	55
15°	557	561	571	581	585	157
25°	516	524	542	560	568	238
35°	456	466	487	510	520	285
45°	374	381	403	424	432	288
55°	273	277	294	308	314	244
65°	171	168	177	185	189	169
75°	84	81	82	83	85	90
85°	20	17	15	13	13	23
90°	0	0	0	0	0	



TEST NUMBER: P296542

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.2	581.2	581.2	581.2	581.2
2.5°	580.2	580.2	581.2	582.2	583.2
5°	578.2	579.2	580.2	583.2	584.2
7.5°	575.2	576.2	579.2	583.2	585.2
10°	570.2	572.2	577.2	583.2	586.1
12.5°	564.3	567.2	575.2	582.2	586.1
15°	557.3	561.3	571.2	581.2	585.2
17.5°	549.3	554.3	566.2	577.2	582.2
20°	540.4	546.3	559.3	573.2	579.2
22.5°	528.4	536.4	552.3	568.2	575.2
25°	516.5	524.4	542.4	560.3	568.2
27.5°	503.5	512.5	531.4	551.3	559.3
30°	489.6	497.6	518.5	539.4	548.3
32.5°	473.7	481.7	503.5	525.4	535.4
35°	455.8	465.7	486.6	509.5	519.5
37.5°	436.9	445.8	468.7	490.6	499.6
40°	417.0	425.9	447.8	470.7	479.7
42.5°	396.1	405.0	425.9	447.8	457.8
45°	374.2	381.1	403.0	423.9	431.9
47.5°	351.3	356.3	377.2	397.1	405.0
50°	326.4	331.4	351.3	369.2	377.2
52.5°	299.5	303.5	322.4	338.4	347.3
55°	272.7	276.7	293.6	307.5	313.5
57.5°	245.8	247.8	262.7	276.7	282.6
60°	220.9	220.9	232.9	243.8	251.8
62.5°	192.1	195.1	204.0	215.0	217.9
65°	171.2	168.2	177.1	185.1	189.1
67.5°	147.3	145.3	151.3	158.2	160.2
70°	125.4	122.4	127.4	131.4	133.4
72.5°	102.5	101.5	103.5	106.5	107.5
75°	83.6	80.6	81.6	82.6	84.6
77.5°	66.7	61.7	62.7	61.7	62.7
80°	48.8	44.8	44.8	43.8	42.8
82.5°	32.8	30.8	28.9	26.9	25.9
85°	19.9	16.9	14.9	12.9	12.9
87.5°	8.0	6.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)