

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: P296660

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296660
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-L92765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1504.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

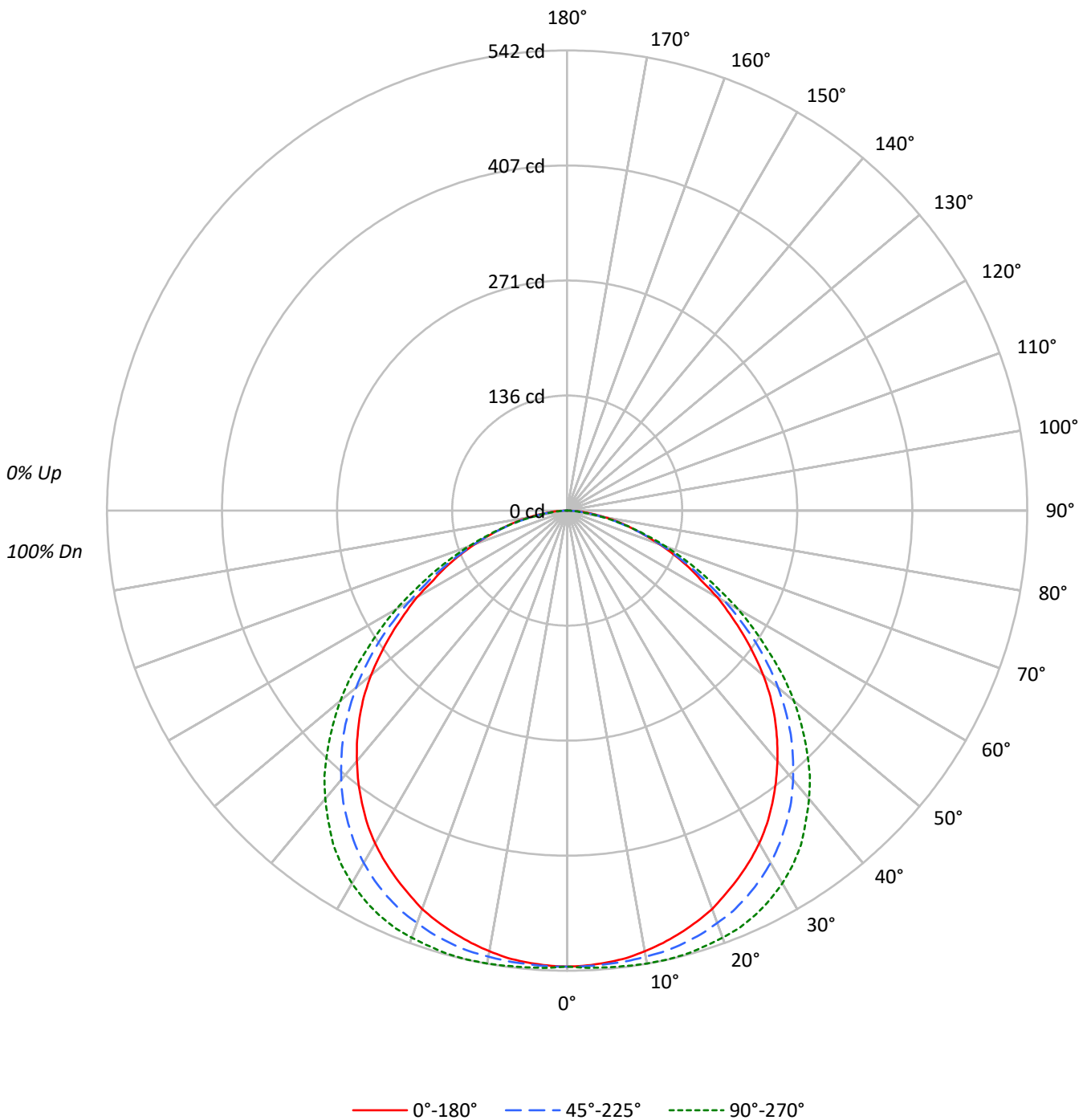
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296660

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P296660

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5000K

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	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°	1446	1446	1446
5°	1444	1449	1459
10°	1440	1458	1480
15°	1435	1471	1507
20°	1430	1481	1533
25°	1417	1489	1560
30°	1406	1489	1575
35°	1384	1478	1577
40°	1354	1454	1558
45°	1316	1418	1519
50°	1263	1359	1460
55°	1183	1273	1360
60°	1099	1159	1252
65°	1007	1042	1113
70°	912	926	970
75°	804	784	813
80°	699	642	614
85°	568	426	371



TEST NUMBER: P296660

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.4
10°-20°	149.2	9.9
20°-30°	231.1	15.4
30°-40°	281.3	18.7
40°-50°	286.5	19.0
50°-60°	241.6	16.1
60°-70°	163.4	10.9
70°-80°	81.7	5.4
80°-90°	18.2	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°	431.4	28.7
0°-40°	712.7	47.4
0°-60°	1240.8	82.5
0°-90°	1504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	534	535	536	539	540	51
15°	515	519	528	537	541	145
25°	477	485	501	518	525	220
35°	421	430	450	471	480	263
45°	346	352	373	392	399	266
55°	252	256	271	284	290	226
65°	158	156	164	171	175	156
75°	77	74	75	76	78	83
85°	18	16	14	12	12	21
90°	0	0	0	0	0	



TEST NUMBER: P296660

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.2	537.2	537.2	537.2	537.2
2.5°	536.3	536.3	537.2	538.2	539.1
5°	534.5	535.4	536.3	539.1	540.0
7.5°	531.7	532.6	535.4	539.1	540.9
10°	527.1	529.0	533.6	539.1	541.8
12.5°	521.6	524.4	531.7	538.2	541.8
15°	515.2	518.8	528.0	537.2	540.9
17.5°	507.8	512.4	523.4	533.6	538.2
20°	499.5	505.0	517.0	529.9	535.4
22.5°	488.5	495.8	510.6	525.3	531.7
25°	477.4	484.8	501.4	517.9	525.3
27.5°	465.5	473.8	491.2	509.6	517.0
30°	452.6	460.0	479.3	498.6	506.9
32.5°	437.9	445.2	465.5	485.7	494.9
35°	421.3	430.5	449.8	471.0	480.2
37.5°	403.8	412.1	433.3	453.5	461.8
40°	385.4	393.7	414.0	435.1	443.4
42.5°	366.1	374.4	393.7	414.0	423.2
45°	345.9	352.3	372.6	391.9	399.2
47.5°	324.7	329.3	348.7	367.0	374.4
50°	301.7	306.3	324.7	341.3	348.7
52.5°	276.9	280.6	298.1	312.8	321.1
55°	252.1	255.7	271.4	284.3	289.8
57.5°	227.2	229.1	242.9	255.7	261.3
60°	204.2	204.2	215.3	225.4	232.7
62.5°	177.5	180.3	188.6	198.7	201.5
65°	158.2	155.5	163.7	171.1	174.8
67.5°	136.1	134.3	139.8	146.3	148.1
70°	115.9	113.2	117.7	121.4	123.3
72.5°	94.8	93.8	95.7	98.4	99.4
75°	77.3	74.5	75.4	76.4	78.2
77.5°	61.6	57.0	58.0	57.0	58.0
80°	45.1	41.4	41.4	40.5	39.6
82.5°	30.4	28.5	26.7	24.8	23.9
85°	18.4	15.6	13.8	12.0	12.0
87.5°	7.4	5.5	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)