

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: P296586

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296586
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-LD5-25-RDP-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

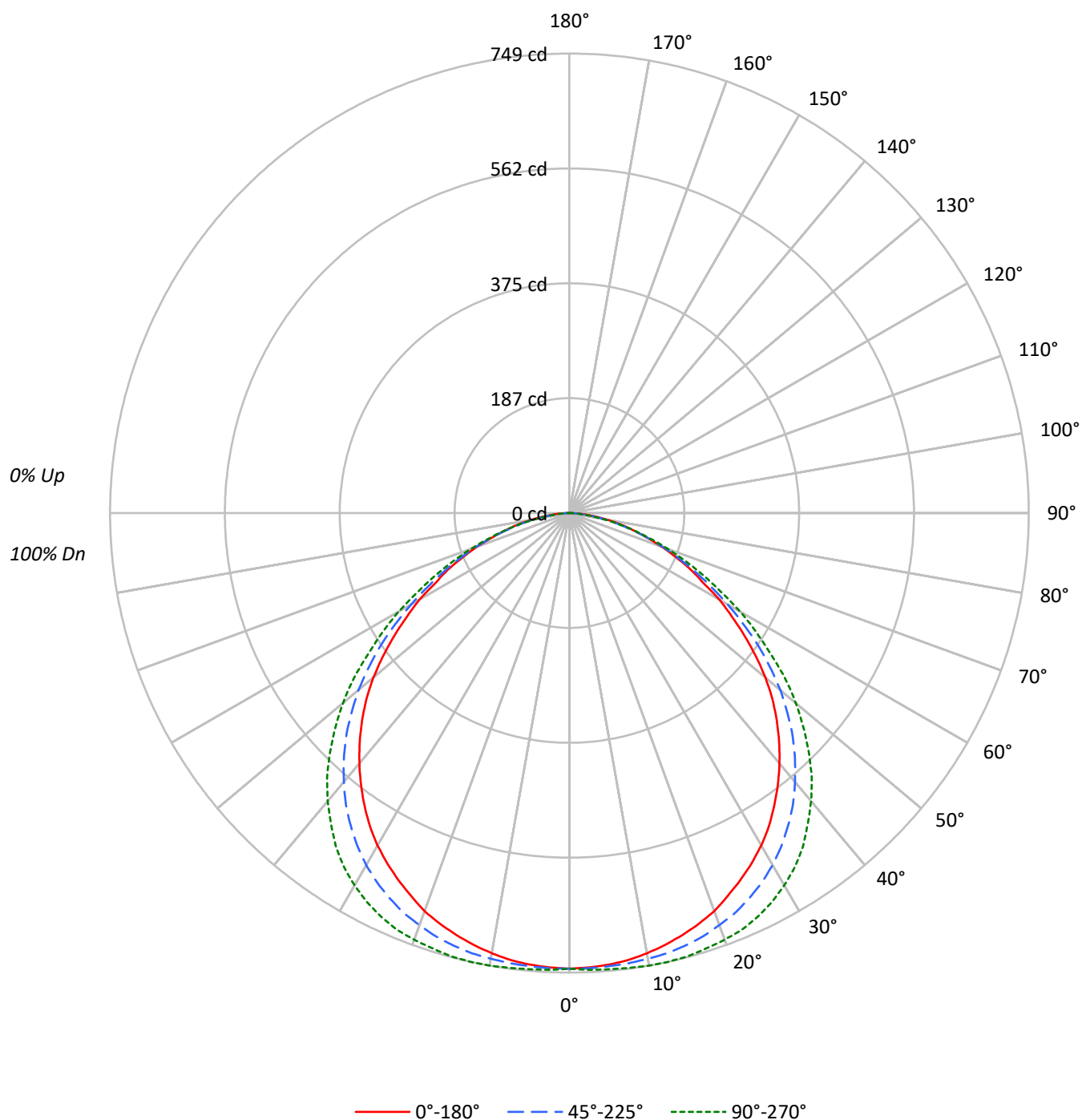
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296586

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot



TEST NUMBER: P296586

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-5500K

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°	1998	1998	1998
5°	1996	2003	2016
10°	1991	2015	2047
15°	1984	2033	2083
20°	1977	2047	2119
25°	1960	2058	2156
30°	1944	2059	2177
35°	1913	2043	2181
40°	1872	2010	2153
45°	1819	1960	2100
50°	1746	1879	2017
55°	1635	1760	1879
60°	1519	1602	1731
65°	1393	1441	1538
70°	1260	1281	1341
75°	1110	1084	1124
80°	965	886	848
85°	784	590	509



TEST NUMBER: P296586

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.4
10°-20°	206.2	9.9
20°-30°	319.5	15.4
30°-40°	388.8	18.7
40°-50°	396.0	19.0
50°-60°	333.9	16.1
60°-70°	225.9	10.9
70°-80°	112.9	5.4
80°-90°	25.1	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°	596.4	28.7
0°-40°	985.2	47.4
0°-60°	1715.1	82.5
0°-90°	2079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	739	740	741	745	746	70
15°	712	717	730	743	748	201
25°	660	670	693	716	726	304
35°	582	595	622	651	664	364
45°	478	487	515	542	552	368
55°	348	354	375	393	401	312
65°	219	215	226	236	242	216
75°	107	103	104	106	108	114
85°	25	22	19	16	16	30
90°	0	0	0	0	0	



TEST NUMBER: P296586

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.6	742.6	742.6	742.6	742.6
2.5°	741.4	741.4	742.6	743.9	745.2
5°	738.8	740.1	741.4	745.2	746.4
7.5°	735.0	736.3	740.1	745.2	747.7
10°	728.6	731.2	737.5	745.2	749.0
12.5°	721.0	724.8	735.0	743.9	749.0
15°	712.1	717.2	729.9	742.6	747.7
17.5°	701.9	708.3	723.6	737.5	743.9
20°	690.5	698.1	714.7	732.5	740.1
22.5°	675.2	685.4	705.7	726.1	735.0
25°	660.0	670.1	693.0	715.9	726.1
27.5°	643.4	654.9	679.0	704.5	714.7
30°	625.6	635.8	662.5	689.2	700.7
32.5°	605.3	615.5	643.4	671.4	684.1
35°	582.4	595.1	621.8	651.1	663.8
37.5°	558.2	569.7	598.9	626.9	638.4
40°	532.8	544.3	572.2	601.5	612.9
42.5°	506.1	517.5	544.3	572.2	584.9
45°	478.1	487.0	515.0	541.7	551.9
47.5°	448.9	455.2	481.9	507.4	517.5
50°	417.1	423.4	448.9	471.8	481.9
52.5°	382.8	387.8	412.0	432.4	443.8
55°	348.4	353.5	375.1	392.9	400.6
57.5°	314.1	316.6	335.7	353.5	361.1
60°	282.3	282.3	297.6	311.5	321.7
62.5°	245.4	249.2	260.7	274.7	278.5
65°	218.7	214.9	226.3	236.5	241.6
67.5°	188.2	185.7	193.3	202.2	204.7
70°	160.2	156.4	162.8	167.9	170.4
72.5°	131.0	129.7	132.2	136.1	137.3
75°	106.8	103.0	104.3	105.5	108.1
77.5°	85.2	78.8	80.1	78.8	80.1
80°	62.3	57.2	57.2	56.0	54.7
82.5°	42.0	39.4	36.9	34.3	33.1
85°	25.4	21.6	19.1	16.5	16.5
87.5°	10.2	7.6	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)