

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: P296581

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296581
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

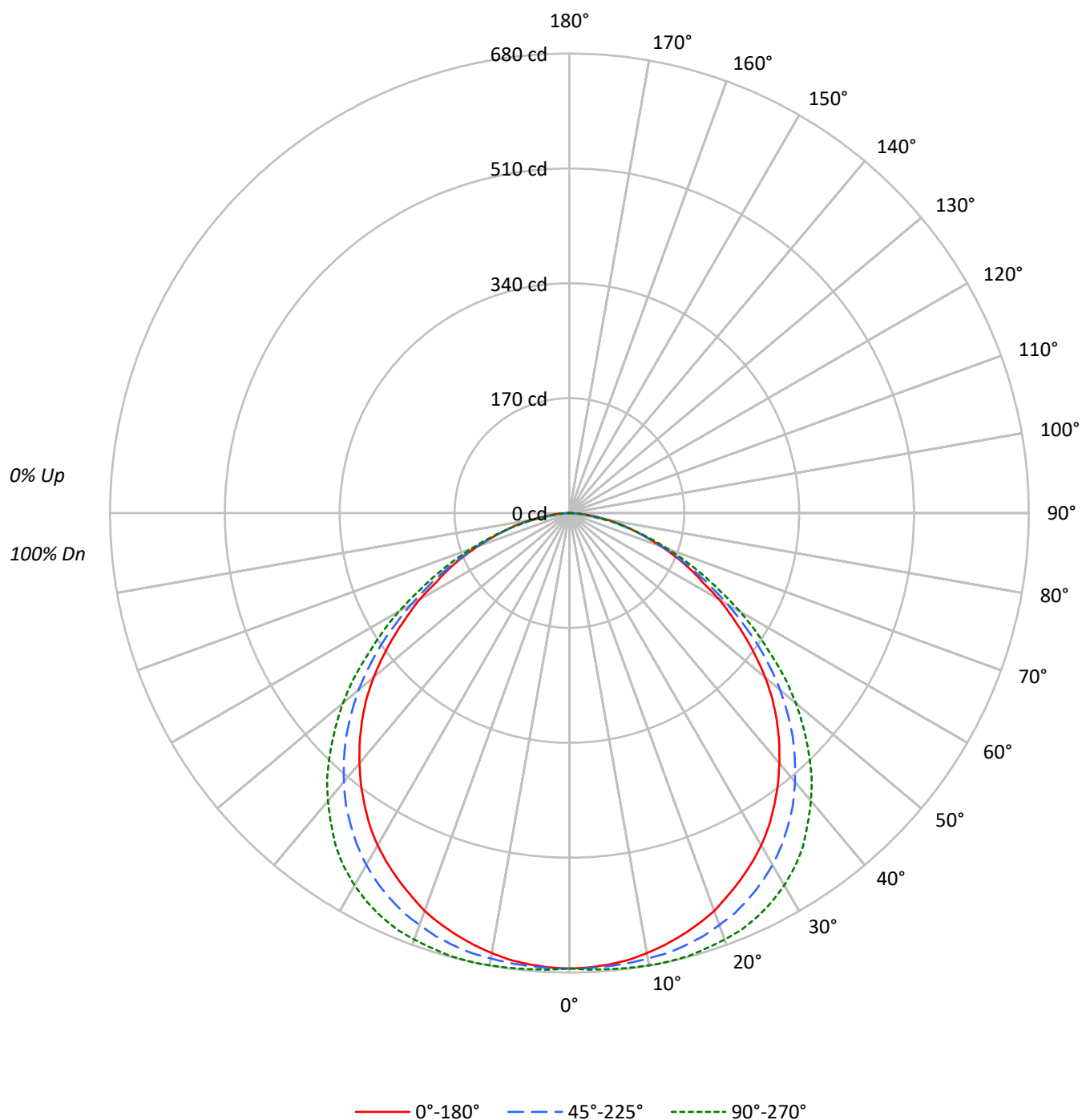
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296581

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296581

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1814	1814	1814
5°	1811	1818	1830
10°	1807	1829	1858
15°	1801	1846	1891
20°	1795	1858	1924
25°	1779	1868	1957
30°	1765	1868	1976
35°	1736	1854	1979
40°	1699	1825	1954
45°	1652	1779	1906
50°	1585	1706	1831
55°	1483	1597	1706
60°	1379	1454	1572
65°	1264	1308	1396
70°	1144	1162	1217
75°	1009	984	1020
80°	877	804	769
85°	713	534	463



TEST NUMBER: P296581

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.4
10°-20°	187.2	9.9
20°-30°	290.0	15.4
30°-40°	352.9	18.7
40°-50°	359.4	19.0
50°-60°	303.1	16.1
60°-70°	205.0	10.9
70°-80°	102.5	5.4
80°-90°	22.8	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°	541.3	28.7
0°-40°	894.2	47.4
0°-60°	1556.7	82.5
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	671	672	673	676	678	64
15°	646	651	662	674	679	182
25°	599	608	629	650	659	276
35°	529	540	564	591	602	330
45°	434	442	467	492	501	334
55°	316	321	340	357	364	283
65°	198	195	205	215	219	196
75°	97	94	95	96	98	104
85°	23	20	17	15	15	27
90°	0	0	0	0	0	



TEST NUMBER: P296581

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.0	674.0	674.0	674.0	674.0
2.5°	672.9	672.9	674.0	675.2	676.4
5°	670.6	671.7	672.9	676.4	677.5
7.5°	667.1	668.3	671.7	676.4	678.7
10°	661.3	663.7	669.4	676.4	679.8
12.5°	654.4	657.9	667.1	675.2	679.8
15°	646.3	651.0	662.5	674.0	678.7
17.5°	637.1	642.9	656.7	669.4	675.2
20°	626.7	633.6	648.7	664.8	671.7
22.5°	612.9	622.1	640.6	659.0	667.1
25°	599.0	608.3	629.0	649.8	659.0
27.5°	584.0	594.4	616.3	639.4	648.7
30°	567.9	577.1	601.3	625.6	636.0
32.5°	549.4	558.6	584.0	609.4	621.0
35°	528.6	540.2	564.4	590.9	602.5
37.5°	506.7	517.1	543.6	569.0	579.4
40°	483.6	494.0	519.4	545.9	556.3
42.5°	459.4	469.8	494.0	519.4	530.9
45°	434.0	442.1	467.4	491.7	500.9
47.5°	407.4	413.2	437.4	460.5	469.8
50°	378.6	384.3	407.4	428.2	437.4
52.5°	347.4	352.0	374.0	392.4	402.8
55°	316.2	320.9	340.5	356.6	363.6
57.5°	285.1	287.4	304.7	320.9	327.8
60°	256.2	256.2	270.1	282.8	292.0
62.5°	222.8	226.2	236.6	249.3	252.8
65°	198.5	195.1	205.4	214.7	219.3
67.5°	170.8	168.5	175.4	183.5	185.8
70°	145.4	142.0	147.7	152.4	154.7
72.5°	118.9	117.7	120.0	123.5	124.7
75°	97.0	93.5	94.6	95.8	98.1
77.5°	77.3	71.6	72.7	71.6	72.7
80°	56.6	51.9	51.9	50.8	49.6
82.5°	38.1	35.8	33.5	31.2	30.0
85°	23.1	19.6	17.3	15.0	15.0
87.5°	9.2	6.9	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)