

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: P296492

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296492
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1854.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

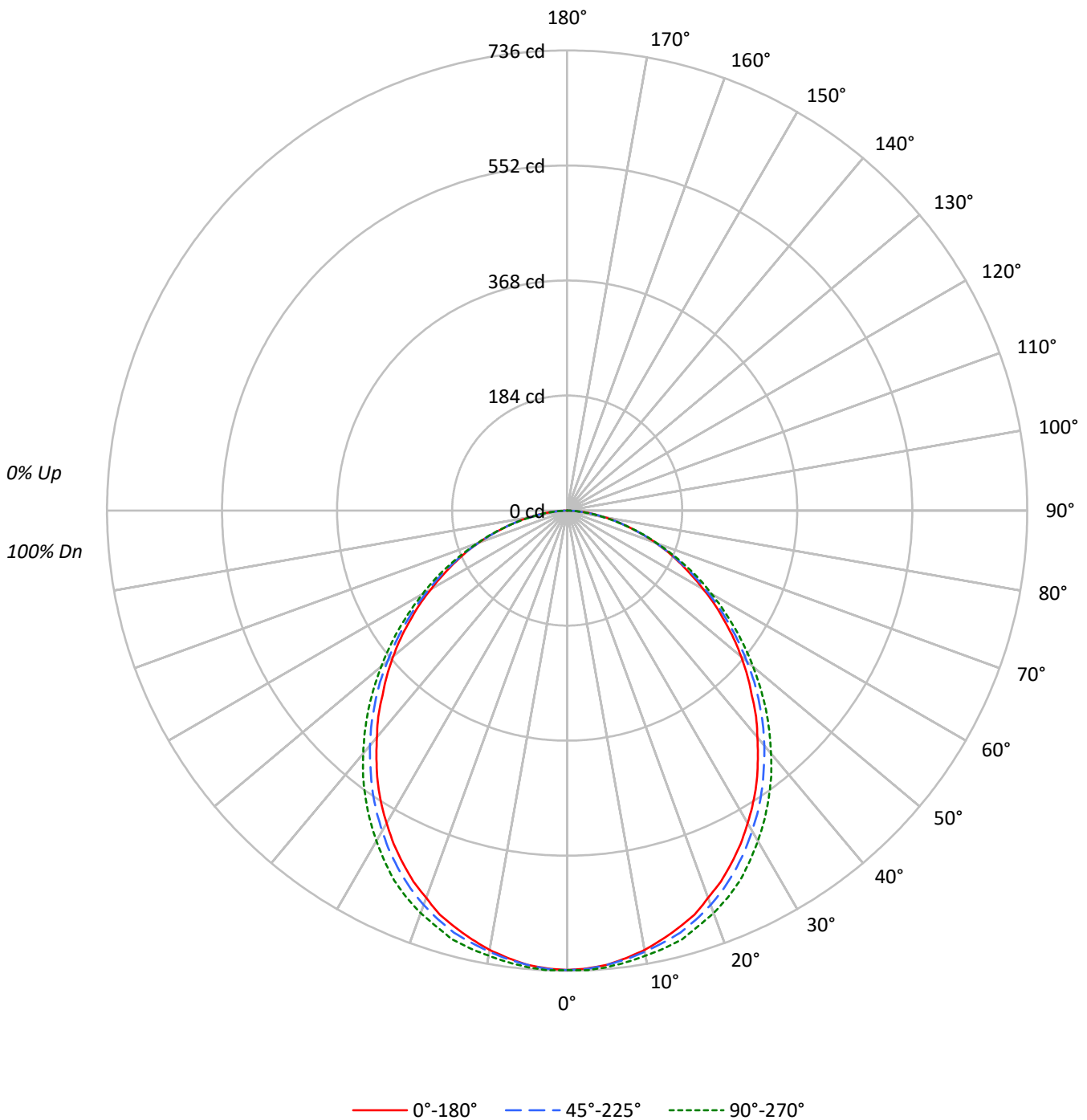
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296492

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

Luminous Intensity Polar Plot





TEST NUMBER: P296492

CATALOG NUMBER: 22RLN-LD5-20-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	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°	1978	1978	1978
5°	1970	1970	1980
10°	1950	1958	1975
15°	1924	1947	1978
20°	1887	1922	1962
25°	1847	1886	1940
30°	1795	1838	1896
35°	1737	1785	1846
40°	1663	1724	1783
45°	1590	1654	1710
50°	1521	1571	1625
55°	1440	1483	1535
60°	1353	1388	1438
65°	1272	1295	1336
70°	1186	1186	1207
75°	1057	1057	1057
80°	931	902	902
85°	741	713	658



TEST NUMBER: P296492

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.7
10°-20°	197.0	10.6
20°-30°	292.7	15.8
30°-40°	339.7	18.3
40°-50°	334.5	18.0
50°-60°	283.1	15.3
60°-70°	201.9	10.9
70°-80°	108.5	5.9
80°-90°	27.3	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°	559.1	30.2
0°-40°	898.8	48.5
0°-60°	1516.3	81.8
0°-90°	1854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	729	729	729	732	733	69
15°	690	692	699	705	710	195
25°	622	624	635	647	654	286
35°	529	530	544	556	562	330
45°	418	421	434	445	449	323
55°	307	308	316	324	327	275
65°	200	200	203	207	210	198
75°	102	101	102	102	102	109
85°	24	23	23	21	21	29
90°	0	0	0	0	0	



TEST NUMBER: P296492

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.9	734.9	734.9	734.9	734.9
2.5°	733.0	733.0	734.0	734.9	735.8
5°	729.3	729.3	729.3	732.1	733.0
7.5°	721.9	722.9	723.8	726.6	728.4
10°	713.6	714.5	716.4	721.0	722.9
12.5°	702.5	705.3	708.1	714.5	717.3
15°	690.5	692.4	698.8	705.3	709.9
17.5°	677.6	678.5	685.9	695.1	697.0
20°	659.1	661.9	671.1	680.3	685.0
22.5°	642.4	644.3	654.5	666.5	670.2
25°	622.1	624.0	635.1	647.1	653.5
27.5°	600.8	602.7	614.7	627.7	632.3
30°	577.7	579.6	591.6	605.5	610.1
32.5°	553.7	555.6	568.5	580.5	587.0
35°	528.7	529.7	543.5	556.5	562.0
37.5°	501.0	503.8	516.7	529.7	536.1
40°	473.3	476.1	490.8	502.9	507.5
42.5°	447.4	451.1	463.1	474.2	478.8
45°	417.8	420.6	434.5	444.6	449.3
47.5°	391.0	393.8	405.8	416.0	418.7
50°	363.3	365.1	375.3	384.5	388.2
52.5°	335.6	336.5	345.7	355.0	357.7
55°	306.9	307.8	316.1	324.5	327.2
57.5°	280.1	280.1	287.5	294.0	296.7
60°	251.4	251.4	257.9	264.4	267.1
62.5°	224.6	224.6	231.1	235.7	239.4
65°	199.7	199.7	203.4	207.1	209.8
67.5°	175.6	172.9	176.6	181.2	180.3
70°	150.7	147.9	150.7	152.5	153.4
72.5°	125.7	123.9	125.7	126.6	128.5
75°	101.7	100.8	101.7	101.7	101.7
77.5°	81.3	78.6	80.4	79.5	78.6
80°	60.1	59.2	58.2	57.3	58.2
82.5°	41.6	40.7	40.7	38.8	38.8
85°	24.0	23.1	23.1	21.3	21.3
87.5°	9.2	9.2	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)