

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: P296514

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296514
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-LD5-35-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2774.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

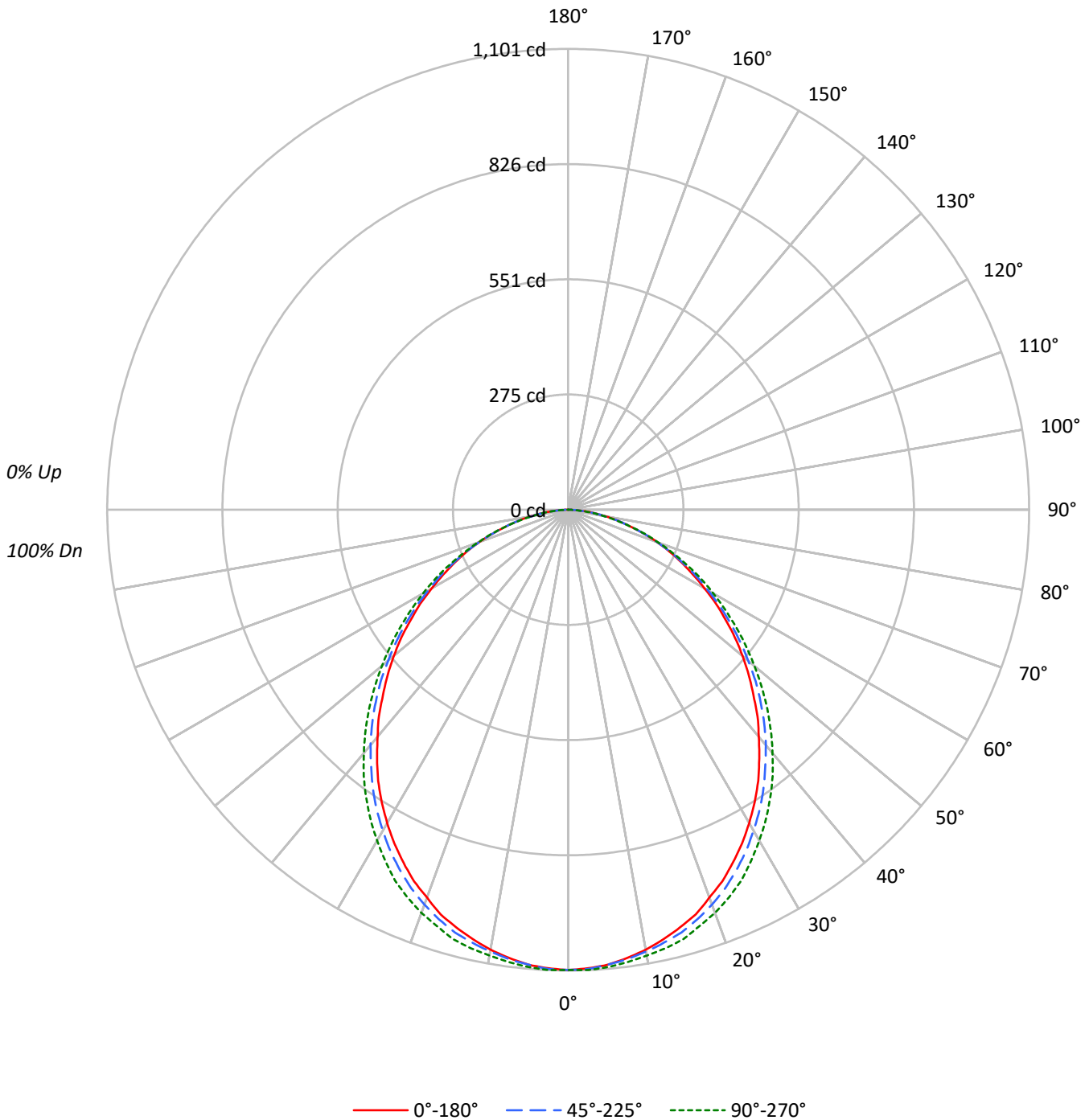
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296514

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P296514

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-2700K

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°	2959	2959	2959
5°	2948	2948	2963
10°	2917	2929	2955
15°	2878	2913	2959
20°	2824	2875	2935
25°	2764	2821	2903
30°	2686	2751	2836
35°	2599	2672	2762
40°	2487	2580	2667
45°	2379	2474	2558
50°	2276	2351	2432
55°	2154	2219	2297
60°	2025	2077	2151
65°	1902	1938	1999
70°	1773	1773	1806
75°	1581	1581	1581
80°	1393	1350	1350
85°	1112	1068	982



TEST NUMBER: P296514

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.7
10°-20°	294.8	10.6
20°-30°	438.0	15.8
30°-40°	508.3	18.3
40°-50°	500.5	18.0
50°-60°	423.5	15.3
60°-70°	302.0	10.9
70°-80°	162.3	5.9
80°-90°	40.9	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°	836.5	30.2
0°-40°	1344.7	48.5
0°-60°	2268.7	81.8
0°-90°	2774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1091	1091	1091	1095	1097	103
15°	1033	1036	1046	1055	1062	291
25°	931	934	950	968	978	428
35°	791	792	813	833	841	494
45°	625	629	650	665	672	483
55°	459	461	473	486	490	411
65°	299	299	304	310	314	296
75°	152	151	152	152	152	163
85°	36	35	35	32	32	43
90°	0	0	0	0	0	



TEST NUMBER: P296514

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.6	1099.6	1099.6	1099.6	1099.6
2.5°	1096.8	1096.8	1098.2	1099.6	1100.9
5°	1091.3	1091.3	1091.3	1095.4	1096.8
7.5°	1080.2	1081.6	1083.0	1087.1	1089.9
10°	1067.7	1069.1	1071.9	1078.8	1081.6
12.5°	1051.1	1055.3	1059.4	1069.1	1073.3
15°	1033.2	1035.9	1045.6	1055.3	1062.2
17.5°	1013.8	1015.2	1026.2	1040.1	1042.8
20°	986.1	990.3	1004.1	1018.0	1024.9
22.5°	961.2	964.0	979.2	997.2	1002.7
25°	930.8	933.6	950.2	968.2	977.8
27.5°	899.0	901.8	919.8	939.1	946.0
30°	864.4	867.2	885.2	905.9	912.8
32.5°	828.5	831.2	850.6	868.6	878.3
35°	791.1	792.5	813.3	832.6	840.9
37.5°	749.6	753.8	773.1	792.5	802.2
40°	708.1	712.3	734.4	752.4	759.3
42.5°	669.4	674.9	692.9	709.5	716.4
45°	625.2	629.3	650.1	665.3	672.2
47.5°	585.0	589.2	607.2	622.4	626.5
50°	543.6	546.3	561.5	575.4	580.9
52.5°	502.1	503.4	517.3	531.1	535.3
55°	459.2	460.6	473.0	485.5	489.6
57.5°	419.1	419.1	430.1	439.8	444.0
60°	376.2	376.2	385.9	395.6	399.7
62.5°	336.1	336.1	345.8	352.7	358.2
65°	298.7	298.7	304.3	309.8	314.0
67.5°	262.8	258.6	264.2	271.1	269.7
70°	225.4	221.3	225.4	228.2	229.6
72.5°	188.1	185.3	188.1	189.5	192.2
75°	152.1	150.8	152.1	152.1	152.1
77.5°	121.7	117.6	120.3	118.9	117.6
80°	89.9	88.5	87.1	85.8	87.1
82.5°	62.2	60.9	60.9	58.1	58.1
85°	36.0	34.6	34.6	31.8	31.8
87.5°	13.8	13.8	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)