

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: P296515

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296515
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2885.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

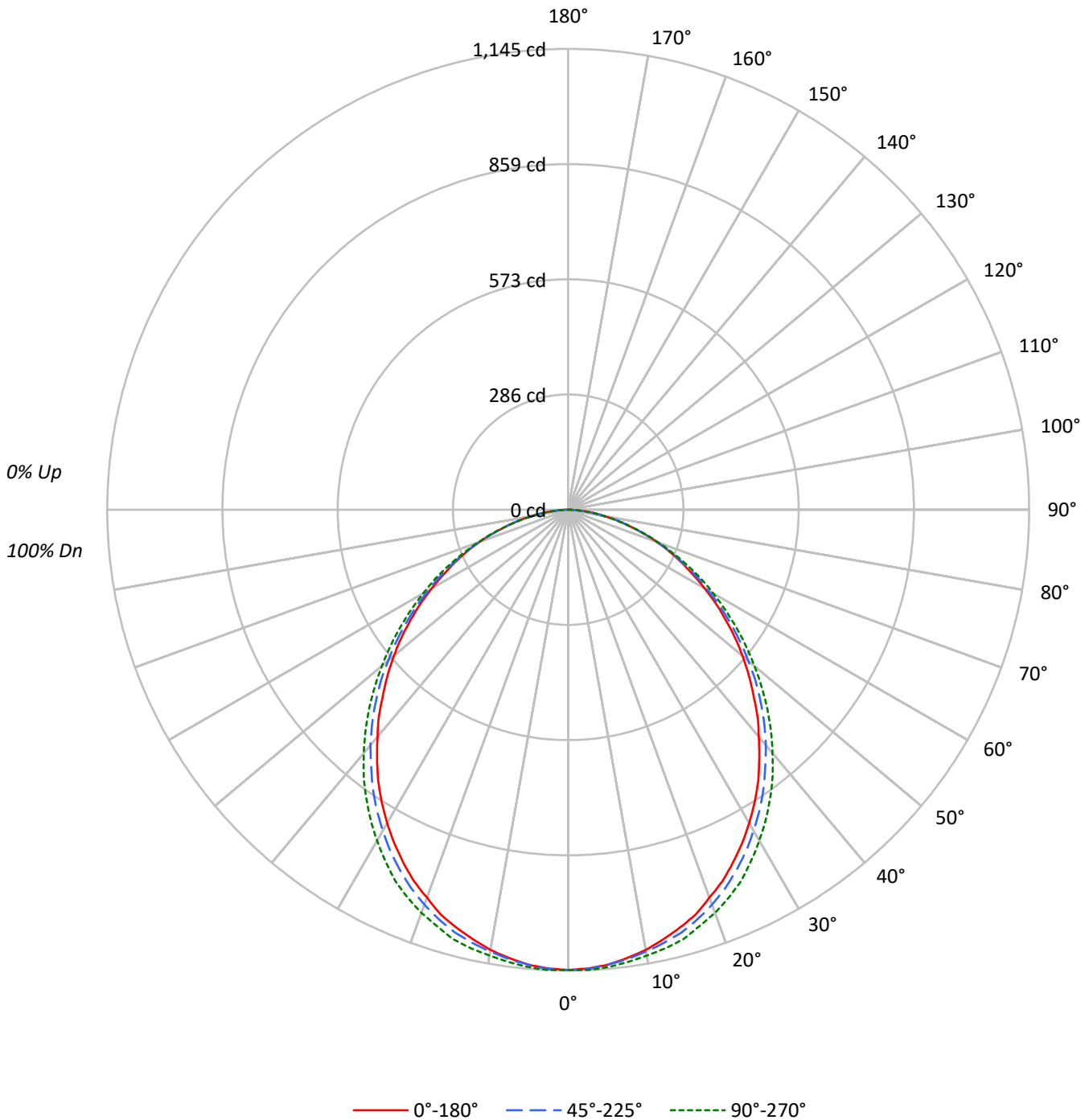
Input Watts (W): 27.621
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296515

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296515

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-3000K

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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3077	3077	3077
5°	3066	3066	3081
10°	3034	3046	3074
15°	2993	3030	3078
20°	2937	2991	3052
25°	2874	2934	3020
30°	2793	2861	2950
35°	2703	2779	2873
40°	2587	2683	2774
45°	2474	2573	2661
50°	2367	2445	2529
55°	2241	2308	2389
60°	2106	2160	2237
65°	1978	2015	2079
70°	1845	1845	1879
75°	1645	1645	1645
80°	1449	1404	1404
85°	1155	1112	1022



TEST NUMBER: P296515

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.7
10°-20°	306.6	10.6
20°-30°	455.5	15.8
30°-40°	528.6	18.3
40°-50°	520.5	18.0
50°-60°	440.5	15.3
60°-70°	314.1	10.9
70°-80°	168.8	5.9
80°-90°	42.5	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°	869.9	30.2
0°-40°	1398.5	48.5
0°-60°	2359.5	81.8
0°-90°	2885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1135	1135	1135	1139	1141	108
15°	1074	1077	1088	1098	1105	303
25°	968	971	988	1007	1017	446
35°	823	824	846	866	875	513
45°	650	654	676	692	699	503
55°	478	479	492	505	509	428
65°	311	311	316	322	326	308
75°	158	157	158	158	158	170
85°	37	36	36	33	33	44
90°	0	0	0	0	0	



TEST NUMBER: P296515

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1140.7	1140.7	1142.1	1143.6	1145.0
5°	1134.9	1134.9	1134.9	1139.2	1140.7
7.5°	1123.4	1124.9	1126.3	1130.6	1133.5
10°	1110.5	1111.9	1114.8	1122.0	1124.9
12.5°	1093.2	1097.5	1101.8	1111.9	1116.2
15°	1074.5	1077.4	1087.5	1097.5	1104.7
17.5°	1054.4	1055.8	1067.3	1081.7	1084.6
20°	1025.6	1029.9	1044.3	1058.7	1065.9
22.5°	999.7	1002.6	1018.4	1037.1	1042.9
25°	968.1	970.9	988.2	1006.9	1017.0
27.5°	935.0	937.9	956.6	976.7	983.9
30°	899.0	901.9	920.6	942.2	949.4
32.5°	861.6	864.5	884.6	903.3	913.4
35°	822.8	824.2	845.8	865.9	874.6
37.5°	779.6	783.9	804.1	824.2	834.3
40°	736.5	740.8	763.8	782.5	789.7
42.5°	696.2	702.0	720.7	737.9	745.1
45°	650.2	654.5	676.1	691.9	699.1
47.5°	608.5	612.8	631.5	647.3	651.6
50°	565.3	568.2	584.0	598.4	604.1
52.5°	522.1	523.6	538.0	552.4	556.7
55°	477.6	479.0	491.9	504.9	509.2
57.5°	435.8	435.8	447.4	457.4	461.7
60°	391.3	391.3	401.3	411.4	415.7
62.5°	349.5	349.5	359.6	366.8	372.6
65°	310.7	310.7	316.5	322.2	326.5
67.5°	273.3	269.0	274.7	281.9	280.5
70°	234.5	230.1	234.5	237.3	238.8
72.5°	195.6	192.7	195.6	197.1	199.9
75°	158.2	156.8	158.2	158.2	158.2
77.5°	126.6	122.3	125.1	123.7	122.3
80°	93.5	92.1	90.6	89.2	90.6
82.5°	64.7	63.3	63.3	60.4	60.4
85°	37.4	36.0	36.0	33.1	33.1
87.5°	14.4	14.4	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)