

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: P296520

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296520
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

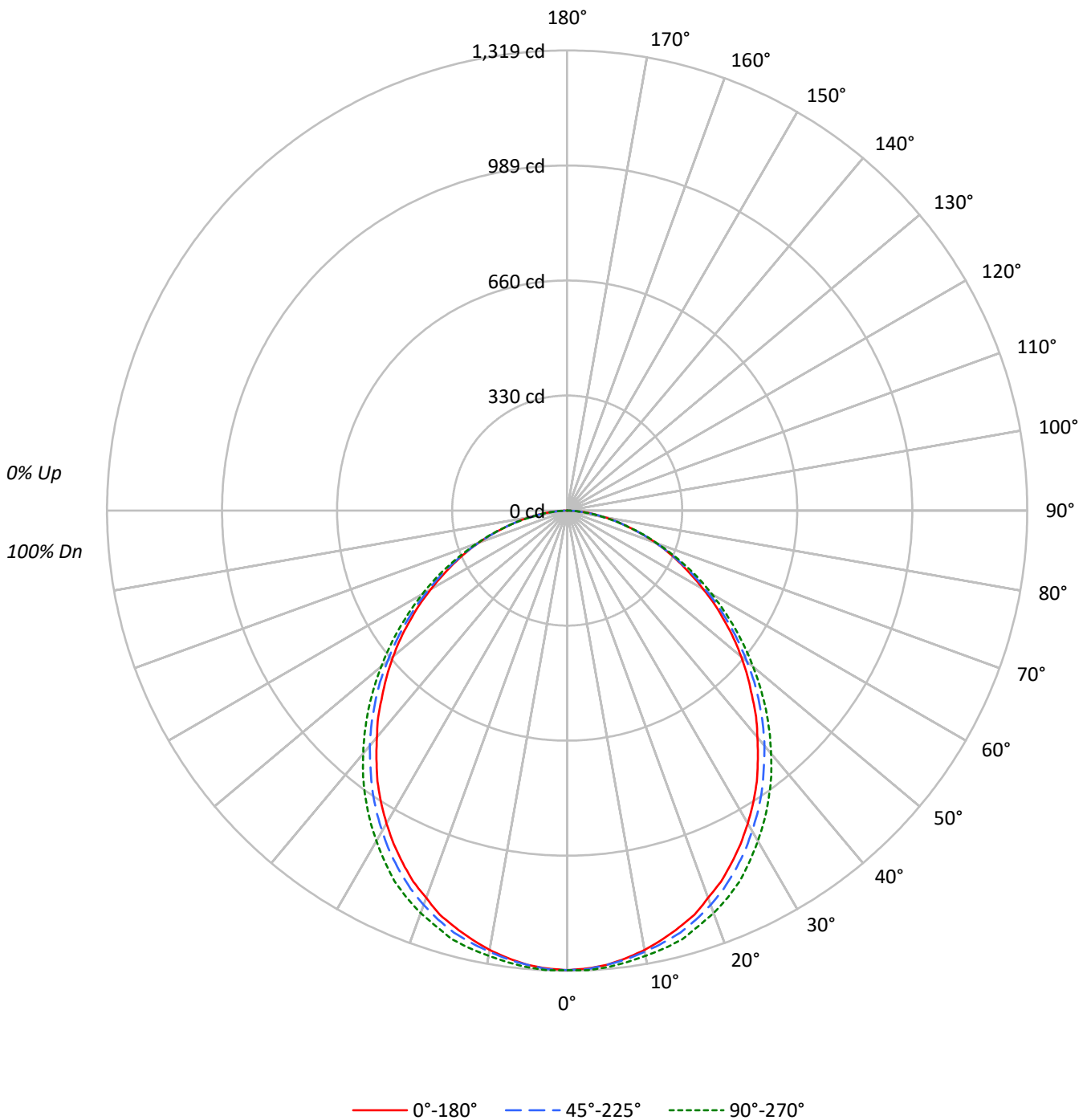
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296520

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P296520

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-5500K

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°	3545	3545	3545
5°	3531	3531	3549
10°	3495	3509	3540
15°	3448	3489	3545
20°	3383	3444	3516
25°	3311	3380	3478
30°	3218	3295	3398
35°	3113	3200	3309
40°	2980	3091	3195
45°	2850	2963	3064
50°	2726	2816	2913
55°	2581	2658	2752
60°	2426	2488	2577
65°	2279	2321	2395
70°	2125	2125	2164
75°	1894	1894	1894
80°	1669	1618	1618
85°	1331	1278	1176



TEST NUMBER: P296520

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.7
10°-20°	353.2	10.6
20°-30°	524.6	15.8
30°-40°	608.9	18.3
40°-50°	599.5	18.0
50°-60°	507.3	15.3
60°-70°	361.8	10.9
70°-80°	194.4	5.9
80°-90°	49.0	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°	1002.0	30.2
0°-40°	1610.9	48.5
0°-60°	2717.7	81.8
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1307	1307	1307	1312	1314	124
15°	1238	1241	1252	1264	1272	349
25°	1115	1118	1138	1160	1171	513
35°	948	949	974	997	1007	591
45°	749	754	779	797	805	579
55°	550	552	567	582	586	493
65°	358	358	364	371	376	355
75°	182	181	182	182	182	196
85°	43	41	41	38	38	51
90°	0	0	0	0	0	



TEST NUMBER: P296520

CATALOG NUMBER: 22RLN-LD5-35-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1313.9	1313.9	1315.5	1317.2	1318.8
5°	1307.2	1307.2	1307.2	1312.2	1313.9
7.5°	1294.0	1295.6	1297.3	1302.3	1305.6
10°	1279.1	1280.7	1284.0	1292.3	1295.6
12.5°	1259.2	1264.1	1269.1	1280.7	1285.7
15°	1237.6	1241.0	1252.5	1264.1	1272.4
17.5°	1214.4	1216.1	1229.4	1245.9	1249.2
20°	1181.3	1186.3	1202.8	1219.4	1227.7
22.5°	1151.5	1154.8	1173.0	1194.6	1201.2
25°	1115.0	1118.3	1138.2	1159.8	1171.4
27.5°	1076.9	1080.2	1101.8	1125.0	1133.3
30°	1035.5	1038.8	1060.4	1085.2	1093.5
32.5°	992.4	995.7	1018.9	1040.5	1052.1
35°	947.7	949.4	974.2	997.4	1007.3
37.5°	898.0	903.0	926.2	949.4	961.0
40°	848.3	853.3	879.8	901.3	909.6
42.5°	801.9	808.5	830.1	849.9	858.2
45°	748.9	753.8	778.7	796.9	805.2
47.5°	700.8	705.8	727.3	745.6	750.5
50°	651.1	654.4	672.7	689.2	695.9
52.5°	601.4	603.1	619.6	636.2	641.2
55°	550.1	551.7	566.6	581.5	586.5
57.5°	502.0	502.0	515.3	526.9	531.8
60°	450.7	450.7	462.3	473.8	478.8
62.5°	402.6	402.6	414.2	422.5	429.1
65°	357.9	357.9	364.5	371.1	376.1
67.5°	314.8	309.8	316.5	324.7	323.1
70°	270.1	265.1	270.1	273.4	275.0
72.5°	225.3	222.0	225.3	227.0	230.3
75°	182.2	180.6	182.2	182.2	182.2
77.5°	145.8	140.8	144.1	142.5	140.8
80°	107.7	106.0	104.4	102.7	104.4
82.5°	74.6	72.9	72.9	69.6	69.6
85°	43.1	41.4	41.4	38.1	38.1
87.5°	16.6	16.6	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)